

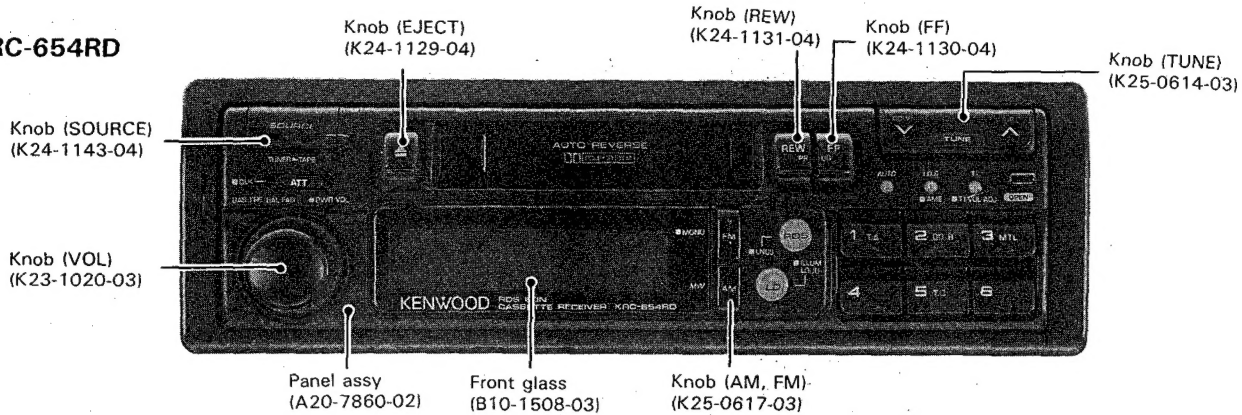
# KRC-654R D/L

## SERVICE MANUAL

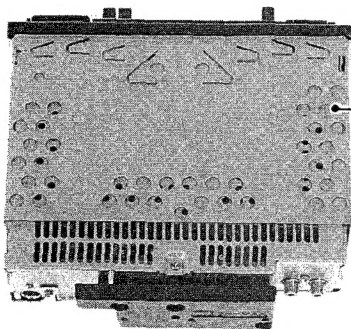
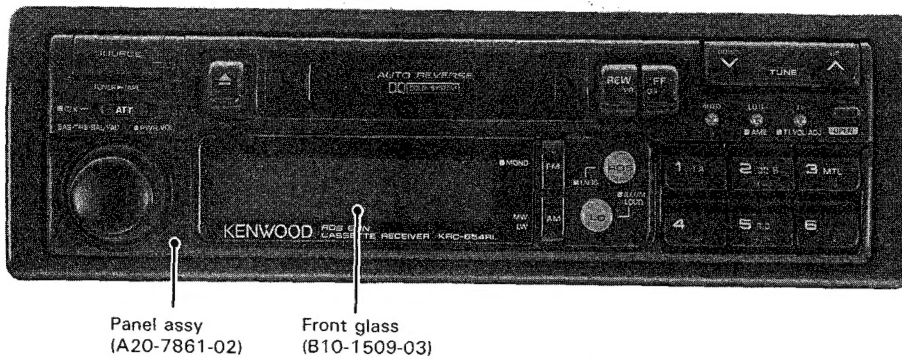
# KENWOOD

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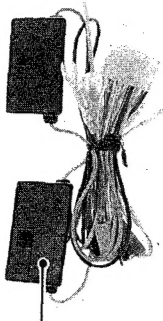
### KRC-654RD



### KRC-654RL



Stay (J54-0059-04)



Lever (D10-2740-04)

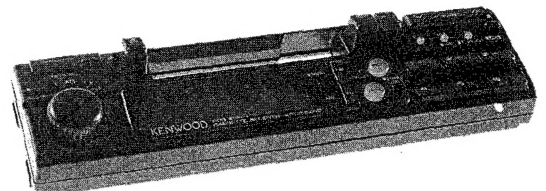


Screw set (N99-1570-05)

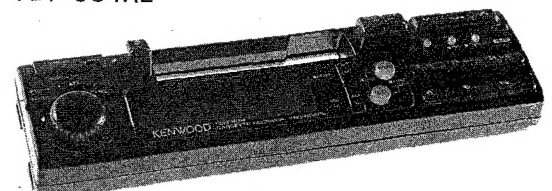


### THEFT DETERRENT FACEPLATE (assy) (not supplied as service parts)

• TDF-654RD



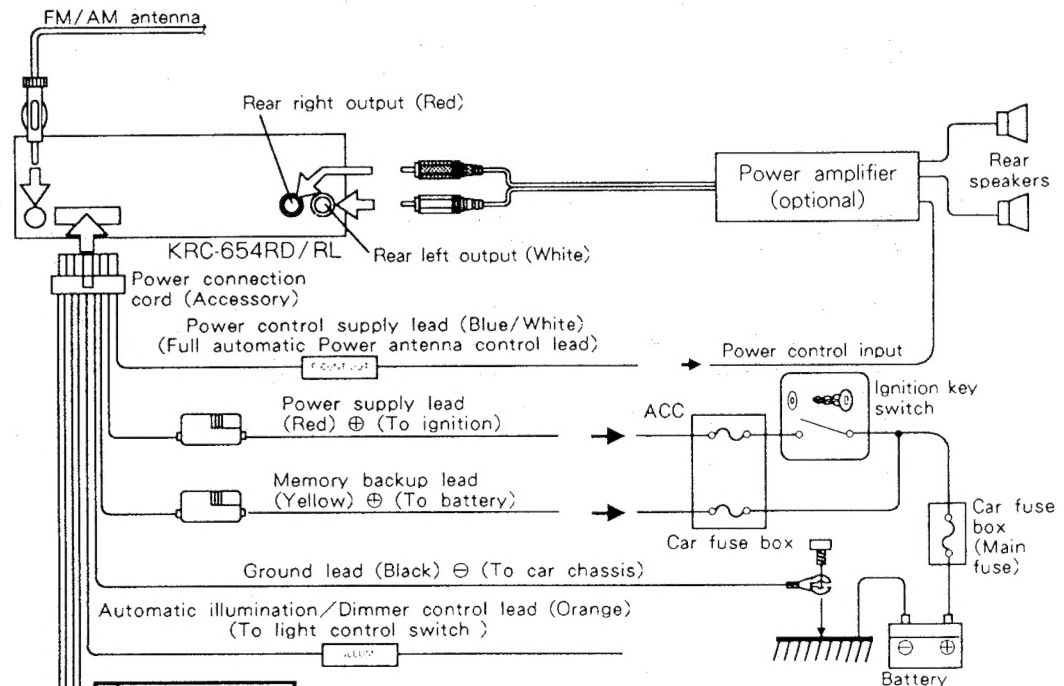
• TDF-654RL



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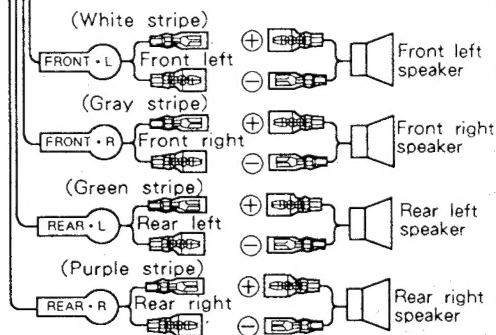
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## CONNECTIONS



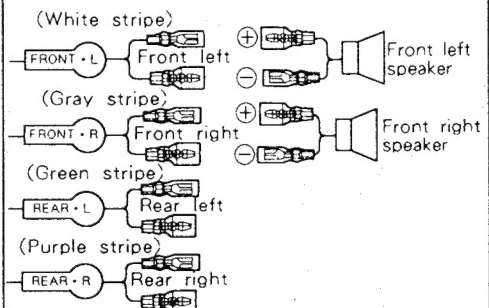
### WARNING

- To prevent fires from occurring when the Power supply lead (Red) and Memory Backup lead (Yellow) are short-circuited by accidentally coming into contact with the chassis (ground), connect the power supply after fuse box connections have been made.



### CAUTION

- When two speakers are connected to the system, connect them as shown below. Any other kind of connection will cause sound distortion and damage to the speakers.

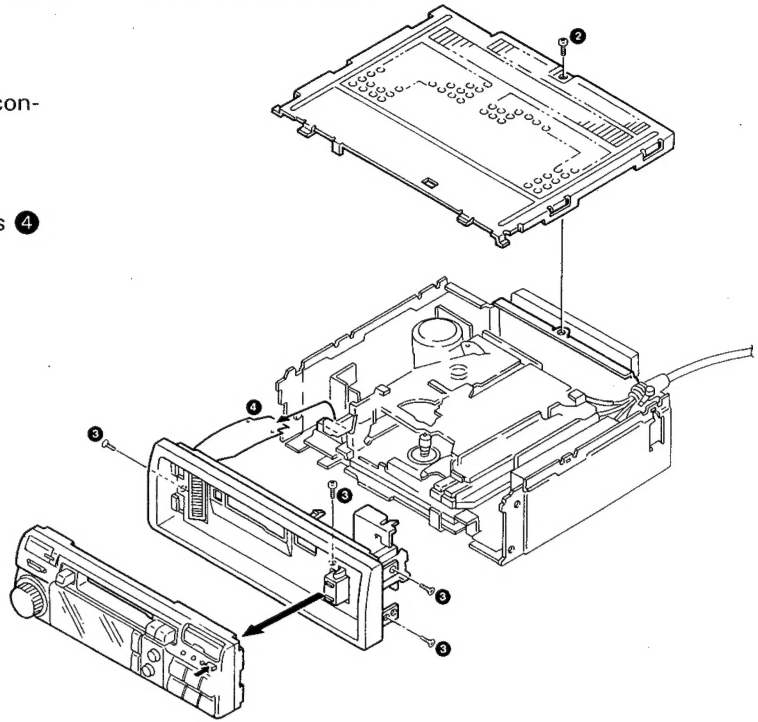


# KRC-654R D/L

## DISASSEMBLY FOR REPAIR

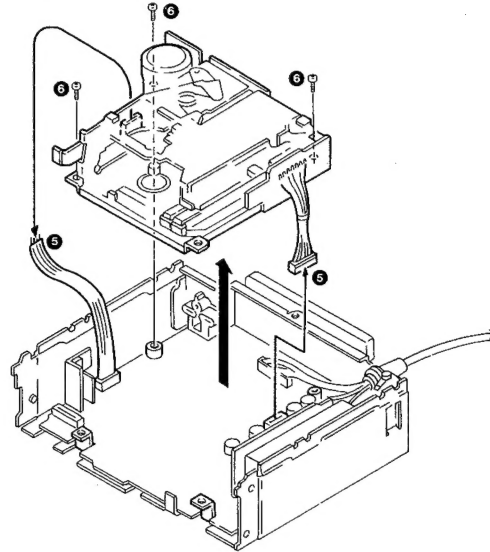
### 1. To remove the control unit and the sub panel

1. Press unit removing button ① and remove the control unit.
2. Remove screw ② and remove the top cover.
3. Remove 4 screws ③, pull out flexible harness ④ and remove the sub panel.



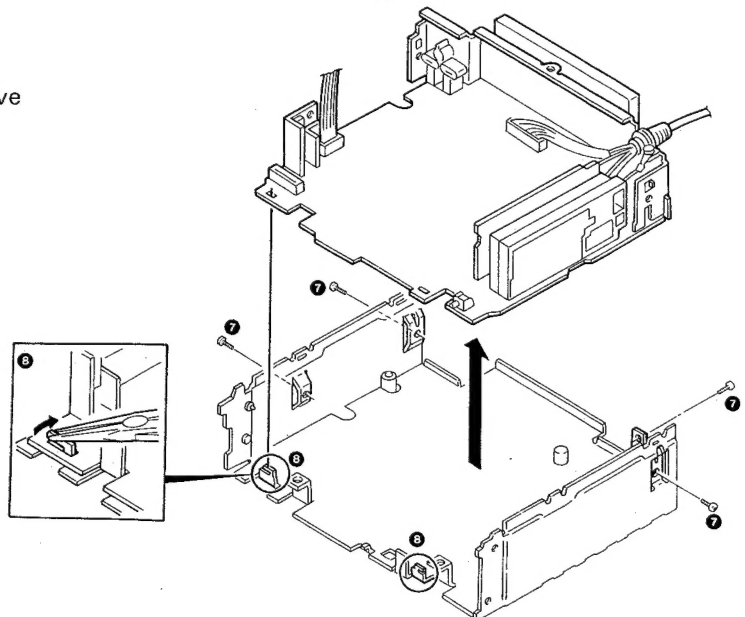
### 2. To remove the cassette mechanism

1. Remove the connectors and flexible harnesses ⑤, remove 3 screws ⑥ and remove the cassette mechanism.



### 3. To remove the PC board

1. Remove 4 screws ⑦.
2. Straighten claws ⑧ with nosed pliers and remove the cassette mechanism.





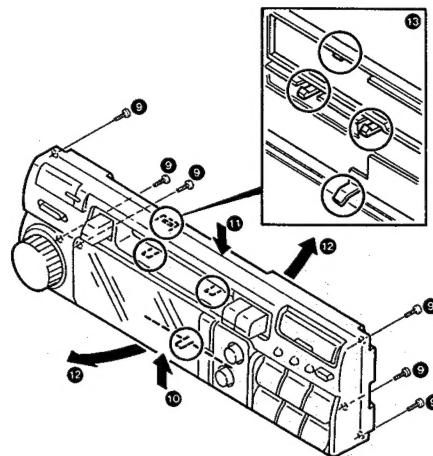


# KRC-654R D/L

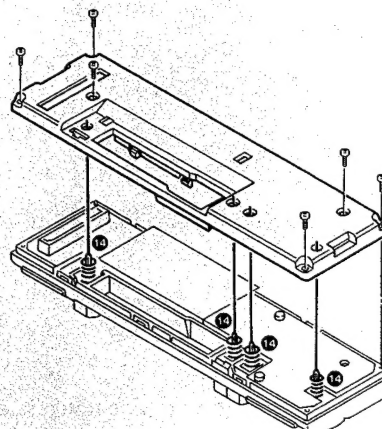
## DISASSEMBLY FOR REPAIR

### 4. To remove the control unit and the case

1. Remove 6 screws ⑨.
  2. While pressing front case ⑩ up and rear case ⑪ down, open the bottom of case ⑫.
- \* Pay attention to claws ⑬.

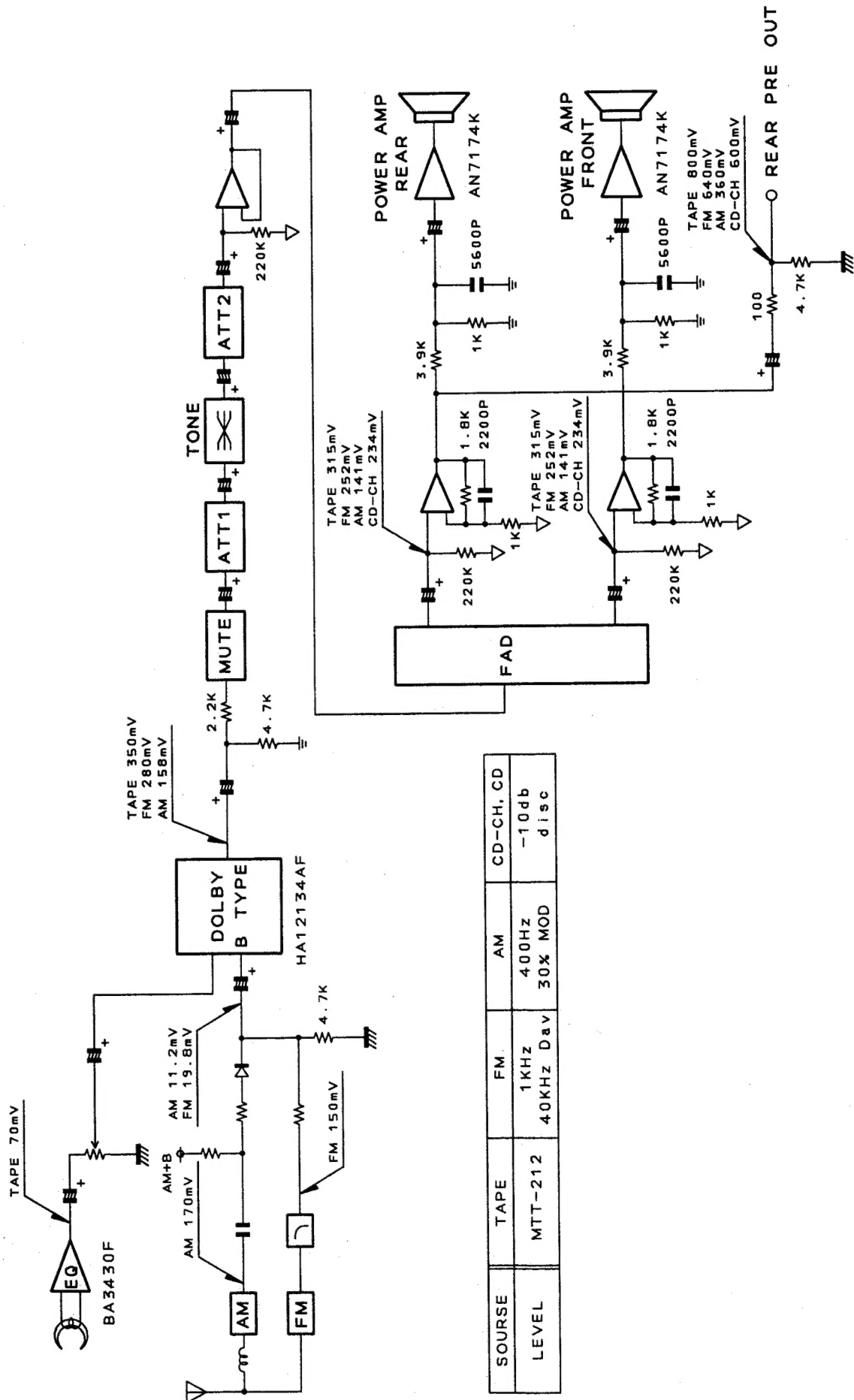


3. When assembling, insert 4 springs ⑭ into the rear case holes.



# KRC-654R D/L

## BLOCK DIAGRAM



KRC-654RD/L

# KRC-654R D/L

## CIRCUIT DESCRIPTION

(X14-3662-XX)

Component	Device Name	Purpose, Function	Operation, Condition, Compatibility
IC1	HA12134AF	Dolby B type	Tape and tuner mode switching, Dolby B type decoding.
IC4	NJM4565MD	1/2 Vcc Buff	
IC5	TC9233FK	E-VOL	
IC6	NJM4565MD	VOL2 out Buff	
IC7 ~ 10	NJM4565MD	Tone control	
IC11, 12	NJM4565MD	FAD Buff and Pre Amp.	
IC13, 14	AN7174K	PWR Amp.	
IC15	AN7465S	FM MPX, NC	FM stereo detection and noise canceling.
IC16	TC4S66F	Analog SW	Switch for cutting the composite signal during high-speed search.
IC17	TDA7330AD	RDS demodulator	
IC18	TDA1579T	SDK IC	
IC19	NJM4565MD	IF composite sig Buff	Composite signal buffer. BK BPF.
IC21	LC6543H-4600	RDS data sync $\mu$ -COM	
IC22	TC4066BF	Analog SW	PLL LPF time constant switch (for normal and high-speed search).
IC23	S-2510A	S-RAM	
IC24	17006GF-531-3B9	Master $\mu$ -COM	
IC25	BA3906-V1	AVR	Supplies V <sub>DD</sub> (5.6 V), COM 8 V, FM 8 V and AM 8 V.
Q3, 4	2SD1757K	Audio Mute	
Q5	2SC2412K	CRSC Driver	
Q6	DTC144EK	Compulsory monaural SW	
Q7	2SC2412K	ANRC Buff	
Q8, 9	2SC2412K	CRSC SW	
Q10	DTC144EK	SK INH SW	
Q11	2SA1428	Motor driver	
Q12	DTC114EK	Motor driver SW	
Q13	2SB1370	ILL AVR	
Q14	2SC2412K		
Q15	DTC144EK	ILL AVR cont SW	
Q16	DTC144EK		
Q17	2SA1428	ILL + B (Gr) SW	
Q18	2SA1428	ILL + B (Am) SW	
Q19	DTC144EK	ILL + B (Gr) SW	
Q20	DTC144EK	ILL + B (Am) SW	
Q21	DTA144EK	ILL DIMMER SW	
Q22, 23	DTD123YK	ILL DIMMER SW	
Q24	2SA1037K	Mute driver	
Q25	DTA144EK	High-speed mute driver	

# KRC-654R D/L

## CIRCUIT DESCRIPTION

(X14-3662-XX)

Component	Device Name	Purpose, Function	Operation, Condition, Compatibility
Q28	DTC144EK	Pack in Mute SW	
Q29	DTC144EK	Tape Mute INH	
Q30	DTB123YK	FM 5 V driver	5 V for RDS sync $\mu$ -COM + RDS demodulator IC.
Q31	DTC144EK	FM 5 V SW	
Q32	2SC2412K	Power SW DET	
Q33	2SC2412K	Mecha Mute SW	SW for muting during FF, REW and PROG.
Q34, 35	2SC2412K		
Q36	DTC144EK	SD INV	
Q37, 38	2SC2412K	AM SD SW	
Q39	DTC144EK	FM Lo/DX SW	
Q40	DTA144EK	AM Band SW	MW/LW switching.
Q41	DTC144EK		
Q42	DTA144EK	AM AGC CUT SW	
Q43	DTC144EK		
Q44	DTA124EK	P-cont OUT driver	
Q45	DTC144EK	P-cont driver SW	
Q46	2SA1037K	P-cont OUT driver	
Q47	2SB1277		
Q48	DTC144EK	ILL DIMMER SW	
Q49	2SK669	PLL LPF	
Q50	DTC144EK	LPF SW	
Q51	DTC144EK	Vt time constant SW	OFF during search.
Q52	2SK669	PLL LPF	
Q53	2SA1037K		
Q54	DTA144EK	PWR Amp Mute SW	
Q55	DTC144EK		
Q56, 57	DTC144EK	ACC, B.U DET	Detects ACC and BU voltages and controls the power amp ST-BY and $\mu$ -COM CE.
Q58	2SC2412K		
Q59	DTC144EK	AVR STBY cont	Controls ST-BY of the system AVR (IC25) and switches P-on 5 V.
Q60	DTA144EK		
Q61	DTA144EK	P-on 5 V driver	
Q62	DTA144EK	CE 5 V driver	
Q63	DTC144EK	ACC, B.U DET Mute SW	

(X86-1272-70)

Component	Device Name	Purpose, Function	Operation, Condition, Compatibility
IC1	BA3430F	Tape EQ Amp	
IC2	LA1140	FM IF Amp	FM IF sig Amp
IC3	PST529E-MT	Reset IC	
Q1	2SC2413K	FM IF Amp	
Q2	DTC124EK	FM Mute cont	OFF during seek.
Q3	DTC124EK	FM Mute SW	
Q4	2SA1037K		
Q5, 9	2SC2412K	FM S-Meter Buff	
Q6	DTC144EK	AFC SW	Switches the time constant of AFC terminal.
Q7	DTC114EK	T-ADV SW	
Q8	2SA1428	Planger driver	
Q10	DTC144EK		
Q11	2SA1428	$\mu$ -COM RESET SW	

## CIRCUIT DESCRIPTION

### Modulation Format of RDS Broadcast

#### 1. Subcarrier Frequency

Subcarrier frequency: 57 kHz  $\pm$  6 Hz

#### 2. Subcarrier Phase

During stereo broadcast, the subcarrier is always in-phase or at a right angle with the 3rd harmonics of the 19 kHz pilot tone.

While the RDS data signal is transmitted together with the ARI (SDK) signal at the same time, the recommended phase angle of these two subcarriers is  $90^\circ \pm 10^\circ$ .

#### 3. Subcarrier Level

The recommended nominal deviation of the main FM carrier wave by the subcarrier is  $\pm 2.0$  kHz.

When the RDS data signal is transmitted together with the ARI (SDK) signal, the recommended deviation by the ARI subcarrier is  $\pm 3.2$  kHz.

#### 4. Modulation Method

The subcarrier is amplitude-modulated by the biphase coded signal. (See the figure below.)

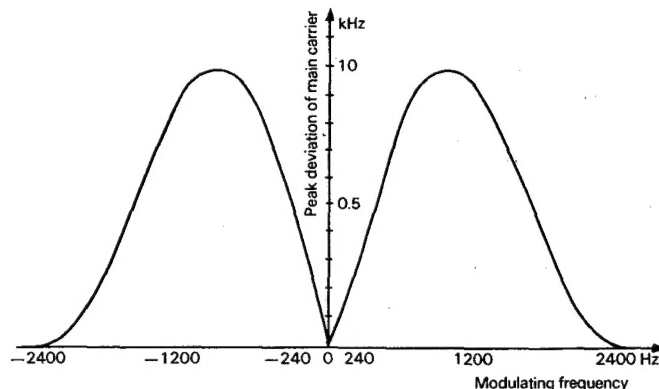
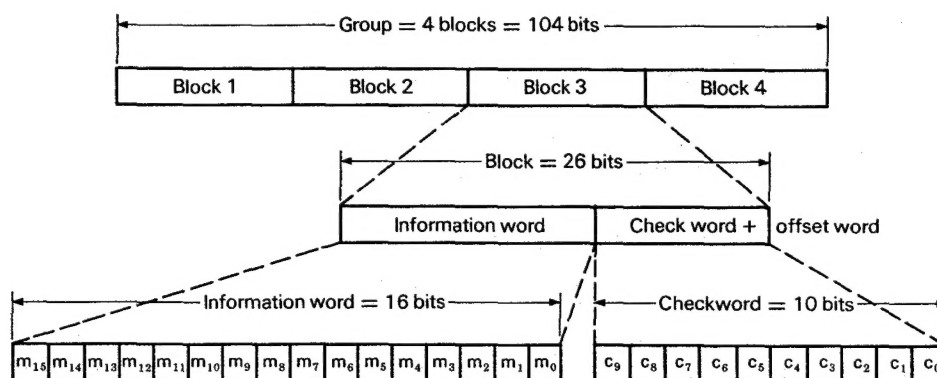


Fig. 4a. — Spectrum of biphase coded radio-data signals

### RDS Broadcast Data Structure

#### 1. Bass-band Coding Structure

The coding structure of the bass-band is shown in the figure below. One group consists of the 104 bits of data and divided into four blocks of 26 bits, and each block consists of a data word and a check word.



(Coding structure of bass-band)

#### 2. Group Type

At present, eight group types are specified and they are defined in Version A and B except for types 4 and 15.

# KRC-654R D/L

## CIRCUIT DESCRIPTION

The eight group types have been defined and the applications of each group are as follows:

Decimal value	Group type					Applications
	A <sub>3</sub>	A <sub>2</sub>	A <sub>1</sub>	A <sub>0</sub>	B <sub>0</sub>	
0	0	0	0	0	X	Basic tuning and switching information (§ 1.3.1)
1	0	0	0	1	X	Programme item number (§ 1.3.2)
2	0	0	1	0	X	Radiotext (§ 1.3.3)
3	0	0	1	1	X	Information about other networks (§ 1.3.4)
4	0	1	0	0	0	Clock-time and date (§ 1.3.5)
5	0	1	0	1	X	Transparent channels for text or other graphics (32 channels) (§ 1.3.6)
6	0	1	1	0	X	In-house applications (§ 1.3.7)
7—14						Applications not yet defined
15	1	1	1	1	1	Fast basic tuning and switching information (§ 1.3.8)

- a: Group type
- b: Decimal value
- c: Binary code
- d: Applications
- e: Basic tuning and switching information (§ 1.3.1)
- f: Programme item number (§ 1.3.2)
- g: Radiotext (§ 1.3.3)
- h: Information about other networks (§ 1.3.4)

- i: Clock-time and date (§ 1.3.5)
- j: Transparent channels for text or other graphics (32 channels) (§ 1.3.6)
- k: In-house applications (§ 1.3.7)
- l: Applications not yet defined
- m: Fast basic tuning and switching information (§ 1.3.8)

"X" shows that the value is either "0" (version A) or "1" (version B).

The recommended minimum repetition rate for some major applications are as follows:

Applications	Group types which contain this information	Recommended minimum repetition rate per second
Programme identification (PI) code	all	11*
Programme service (PS) name	0A, 0B	1*
Programme type (PTY) code	all	11
Traffic programme (TP) identification code	all	11
Alternative frequency (AF) code	0A	4**
Traffic announcement (TA) code	0A, 0B, 15B	4
Decoder identification (DI) code	0A, 0B, 15B	1
Music/speech (M/S) code	0A, 0B, 15B	4
Programme item number (PIN) code	1A, 1B	1
Radiotext (RT) message	2A, 2B	0.2

- a: Applications
- b: Group types which contain this information
- c: Recommended minimum repetition rate per second
- d: Programme identification (PI) code
- e: Programme service (PS) name
- f: Programme type (PTY) code
- g: Traffic programme (TP) identification code
- h: Alternative frequency (AF) code
- i: Traffic announcement (TA) code
- j: Decoder identification (DI) code
- k: Music/speech (M/S) code
- l: Programme item number (PIN) code
- m: Radiotext (RT) message

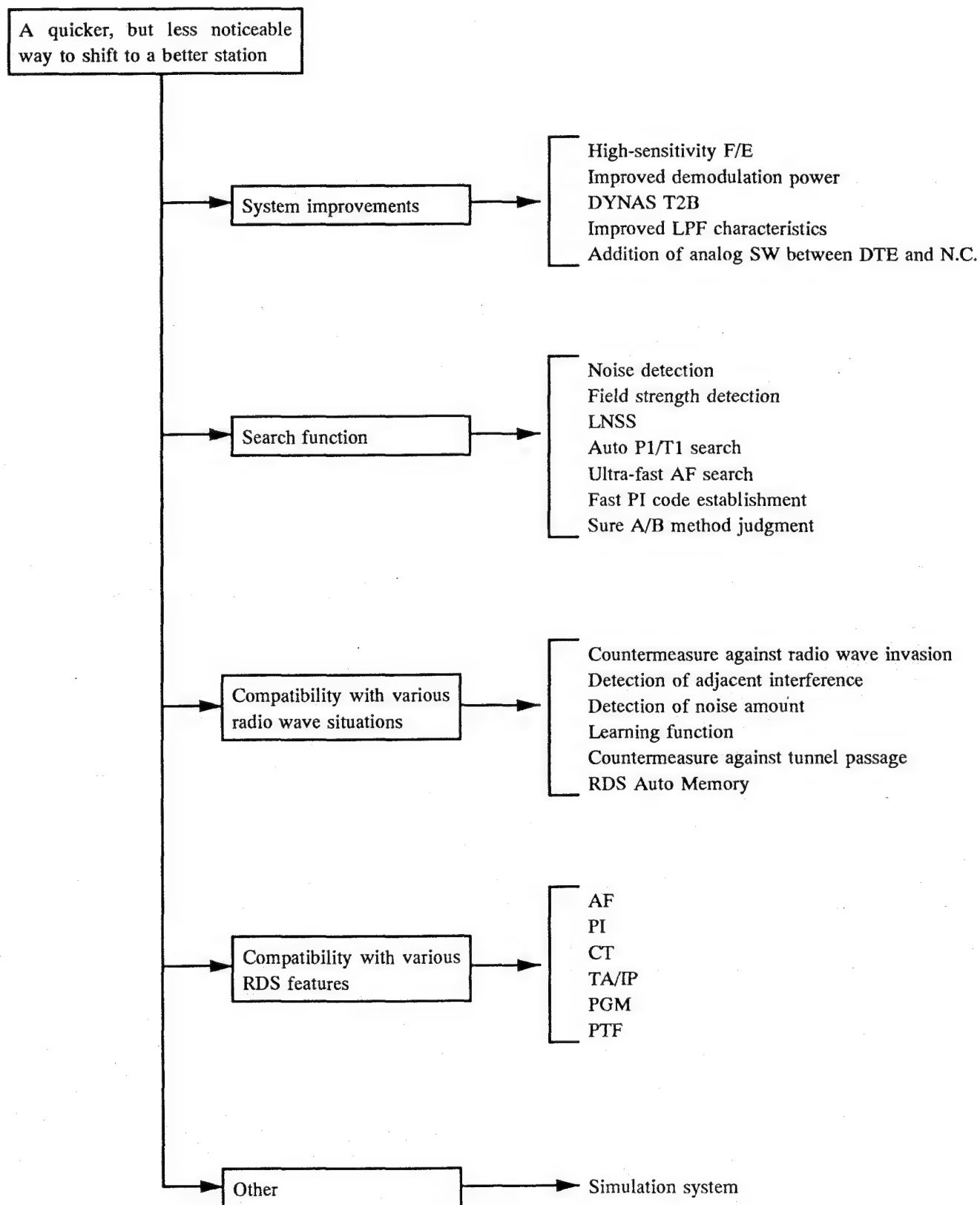
\* The effective codes for these two items are always transmitted with the recommended minimum repetition rate defined when the transmitter transmits the normal broadcast programme.

\*\* The alternative frequency (if exists) for the transmitter which transmits the same programme signal are transmitted periodically among 25 stations listed. When the alternative frequency is not transmitted, the type 0B group (that does not include the alternative frequency information) should be used instead of the type 0A.

# KRC-654R D/L

## CIRCUIT DESCRIPTION

### KENWOOD INTELLIGENT RDS TUNER SLOGAN



## CIRCUIT DESCRIPTION

Item	First Generation	Second Generation	Second-and-half Generation	Third Generation
MODEL No.	KRC-951RDS	KRC-951R → KDC-94R → KDC-84R → KRC-752R → KRC-652R	KRC-953R	KDC-96R KDC-86R KRC-854RD/L KRC-654RD/L
AF search start condition	<b>When abnormality is detected</b> Noticeable sound interruption due to switch-over.	<b>When noise is detected</b> Smaller sound interruption. Slow station search.	<b>When new noise is detected</b> Smaller sound interruption. Quick station search.	
S meter detection method	<b>Only once</b> Frequent occurrences of unnecessary search due to checking mistakes.	<b>3 times per 300 ms + Re-check</b> Reduced checking mistakes.	<b>Once per 10 ms + Re-check</b> Reduced checking mistakes.	
AF search intervals	<b>2 sec., 1 sec., 15 sec.</b> Sound interruptions are noticeable in case the receiving condition is good even while the input level is low.			<b>Uniformly 15 sec.</b> Quick search occurs whenever as required, while reducing sound interruptions by also utilizing the forced AF search based on noise amount detection.
Noise amount detection	None Search is not possible at above 40 dBu. The search frequency is not variable regardless of the noise amount.		<b>Detection of amount of noise above 40 dBu</b> Search can occur when noise is large, even when the ANT input level is high.	<b>Noise amount detection regardless of the ANT input level</b> Quick search occurs whenever the noise is large, regardless of the ANT input level.
Period of sound interruption for AF search	<b>Uniformly 80 ms</b> Noticeable sound interruption.	<b>50 to 70 ms</b> Noticeable sound interruption.	<b>8 to 10 ms</b> Unnoticeable sound interruption.	
Period of generation of momentary other-station sound	<b>1 sec.</b> First-generation tuning microcomputer	<b>300 ms</b> Second-generation tuning microcomputer	<b>200 ms</b> Third-generation tuning microcomputer	
Learning function	<b>Not provided</b> Frequent occurrences of momentary other-station sounds. Frequent unnecessary search.			<b>Provided</b> Reduced frequency of occurrences of momentary other-station sounds. Less frequent unnecessary search.
F/E	<b>General product</b> DC/DC for fast PLL is required.	<b>Low-Vt F/E</b> DC/DC is deleted.	<b>Low-Vt F/E + High sensitivity</b> DC/DC is deleted. RDS sensitivity is improved.	



## CIRCUIT DESCRIPTION

Item	First Generation	Second Generation	Second-and-half Generation	Third Generation
RDS auto memory	<b>Sequential memory regardless of PI</b> Several stations with same PIs are stored in different preset memories.		<b>When there are several stations with same PI, only one of them is stored.</b> Wasteful use of memory is eliminated.	
Compatibility with EON	<b>Not provided</b>			<b>Provided</b> Traffic information of other networks can be received. EON mapped AF can be used.
Auto PI search	<b>Seek only</b> PI seek starts when the level is less than 20 dBu and non-tuned status lasts continuously for 5 sec. All AFs are checked during the 5-sec. period above, and PI seek starts when no substituting station is found.		<b>All-AF check + Seek</b> All-AF check starts when the level is less than 20 dBu and non-tuned status lasts continuously for 30 sec., and PI seek starts if no substituting station is found in the all-AF check.	
Auto TI search	<b>Seek only</b> TI seek starts when TP and SK are absent continuously for 5 sec.		<b>All-AF check + Seek</b> All-AF check starts when TP and SK are absent continuously for 30 sec., and TI seek starts if no substituting station is found in the all-AF check.	
LNSS	<b>Another PI station is searched when the current station level is less than 20 dBu.</b> Another PI station is searched as the last resort.			
Sure A/N method judgment	<b>Provided</b>			
Tracking of A/B method change	<b>Not provided</b>	<b>Provided</b>		

## CIRCUIT DESCRIPTION

Item	First Generation	Second Generation	Second-and-half Generation	Third Generation
Countermeasure against radio wave invasion	Not provided		<b>Provided</b> Seek starts when a preset station recalled has a different PI code. AF search occurs when the level is more than 40 dBu in the non-tuned status.	<b>New countermeasure provided.</b> Seek starts when a preset station recalled has a different PI code. AF search occurs when the level is more than 40 dBu in the non-tuned status. AF search starts when the PI code changes, then PI search starts if no substituting station is found.
Reduction of PS establishment period	Long	<b>Short period</b> The period is still longer than Blaupunkt, etc., but erroneous display does not occur. The first PS establishment is performed quickly after two times of coincidences. After establishment, checking based on four coincidences is provided to make sure.		

## CIRCUIT DESCRIPTION

## Advantages of KENWOOD Over Competitors

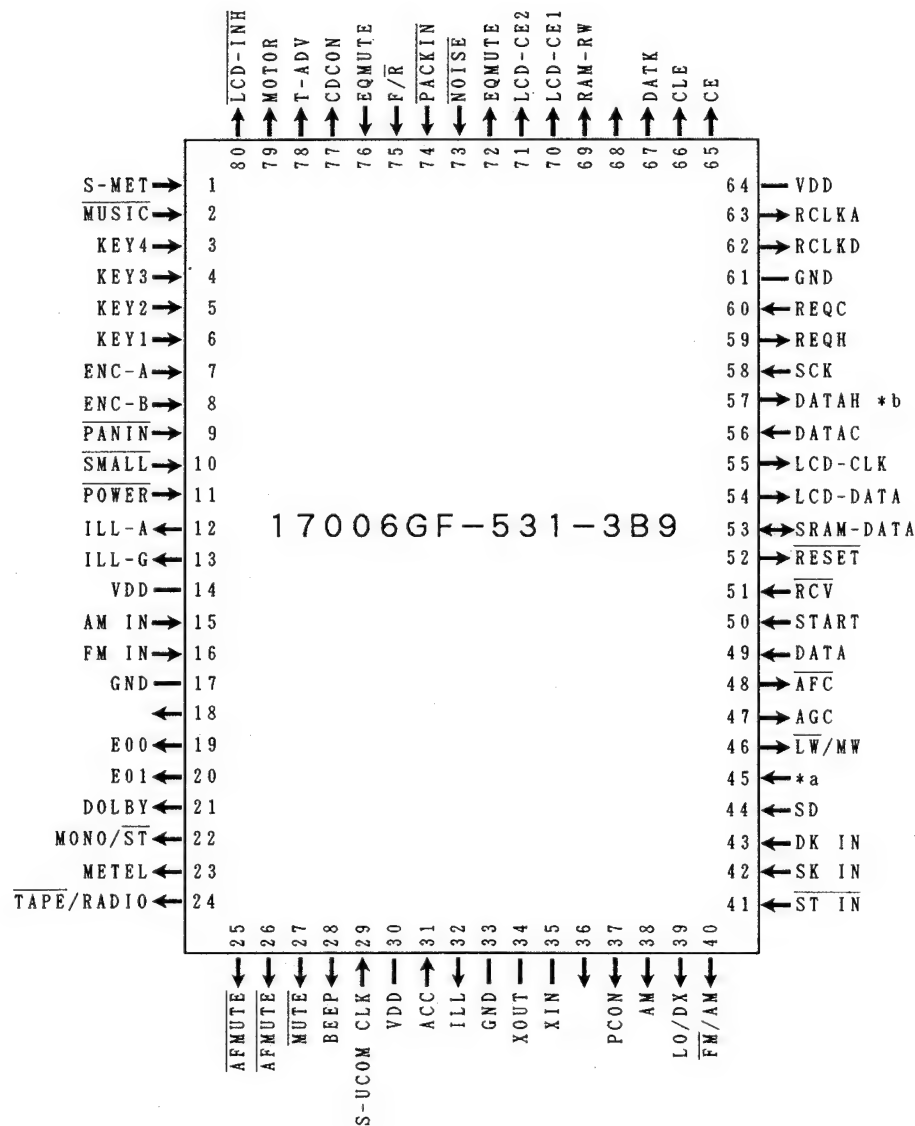
KENWOOD	● Competitors	○ Advantages
AF search based on noise detection	● Search starts simply based on the field strength.	○ As AF search is initiated when noise is generated due to adjacent interference, skip noise, multi-path noise, etc., unnatural feeling of sound interruption is small. ● With competitors, AF search starts when the field strength drops below the set level regardless of the actual noise. This makes sound interruption noticeable and offensive because AF search occurs even in low-noise condition.
AF search at less than 40 dBu	● Below 20 dBu only (except for Grundig).	○ As search can be performed under medium field strength, early shifting to a better station is possible while noise is relatively small. ● With competitors, search starts at below 20 dBu, that is, only after the receiving condition has become poor. This results in delay of station switchover timing.
Forced AF search after noise amount detection	● Not provided.	○ As AF search can be started by checking the noise amount under any field strength, early search is possible even in areas where adjacent interferences occur frequently, such as Italy, by varying the search interval. This means that, if audible noise is important even when the field strength is in a high level with which search is not performed normally, it is possible to shift to a station with smaller noise and better receiving condition even if the field intensity of the new station is smaller. Under medium and low field intensity, AF search can be started immediately whenever the noise amount check shows a high noise level. Therefore, the ordinary search interval can be set relatively long, so the frequency of AF searches while the noise level is low can be reduced and the inconvenient feeling of sound interruption due to search can be improved further. ● With competitors, this feature is not provided so search cannot be started provided that the level is 20 dBu or more, even when noise is very noticeable; in such a case, reception with high interference should continue.
Countermeasure against radio wave invasion	● Generally not provided. Only some manufacturers provide this feature.	○ It happens that different stations with an identical frequency is broadcasting in a same area. With KENWOOD, such a condition can be detected and shifting to another station without interference is possible by activating AF search or PI search. ● With competitors, no countermeasure against this is provided, so nothing can be done against the occupation of radio wave by the non-required station.
Leaning function	● Provided Due to the difficulty in the function analysis, we have not evaluated the difference with KENWOOD yet at present. This function is not provided by some manufacturers.	○ During AF search, the stations to which shifting should not be done (stations with different PIs or those which do not broadcast RDS) are judged in a reliable manner, and such AF stations will not be searched for a certain period of time. This eliminates wasteful search of unnecessary stations, contributing to the reduction of the occurrences of momentary other-station sounds.

# KRC-654R D/L

## CIRCUIT DESCRIPTION

IC24 17006GF-531-3B9(X14-3662-XX)

Microcomputer



Select SW

\*a...TYPE RD/RL

\*b...MODEL KRC-854/KRC-654

# KRC-654R D/L

## CIRCUIT DESCRIPTION

### Terminal Description (1)

No	Pin Name	I/O	Port Name	Function
1	ADC5	I	S-MET	S meter input.
2	ADC4	I	MUSIC	T-ADV music input.
3	ADC3	I	KEY4	Panel key input.
4	ADC2	I	KEY3	Panel key input.
5	ADC1	I	KEY2	Panel key input.
6	ADC0	I	KEY1	Panel key input.
7	P1D3	I	ENC-A	Rotary encoder input.
8	P1D2	I	ENC-B	Rotary encoder input.
9	P1D1	I	PANIN	Detachable panel SW
10	P1D0	I	SMALL	Small light input.
11	INT1	I	POWER	Power key.
12	P1C3	O	ILL-A	Illumination (amber) output.
13	P1C2	O	ILL-G	Illumination (green) output.
14	Vdd0	-	Vdd	+ 5 V for analog circuitry.
15	VCOL	I	AM IN	AM VCO input.
16	VCOH	I	FM IN	FM VCO input.
17	GND0	-	GND	GND for analog circuitry.
18	EO10	O	-----	
19	EO00	O	EO0	Error output.
20	EO01	O	EO1	Error output.
21	P3C3	O	DOLBY	Dolby B output.
22	P3C2	O	MONO/ST	Compulsory monaural output.
23	P3C1	O	METAL	Metal output.
24	P3C0	O	T/R	Tape/Radio switching.
25	P1B3	O	AFMUTE	High-speed muting for AF search.
26	P1B2	O	AFMUTE	High-speed muting for AF search.
27	P1B1	O	MUTE	Normal muting.
28	P1B0	O	BEEP	Beep sound (modulated).
29	INT0	I	SucomCLK	RDS sync u-COM clock input.
30	Vdd1	-	Vdd	+5 V for digital circuitry.

# KRC-654R D/L

## CIRCUIT DESCRIPTION

### Terminal Description (2)

No.	Pin Name	I/O	Port Name	Function
31	CE	I	CE	Chip enable.
32	P3D3			
33	GND1	-	GND	GND for digital circuitry.
34	XOUT	O	XO	X' tal 4.5MHz
35	XIN	I	XI	X' tal 4.5MHz
36	CKOUT	O	-----	
37	P2D3	O	PCON	Power control including internal power supply.
38	P2D2	O	AM	AM power control.
39	P2D1	O	LO/DX	Local/DX switching.
40	P2D0	O	FM/AM	FM/AM switching.
41	P3A3	I	ST IN	ST pilot signal input.
42	P3A2	I	SK IN	SK signal input.
43	P3A1	I	DK IN	DK signal input.
44	P3A0	I	SD	FM band muting/AM SD signal input.
45	P1A3	I	*a	RD/RL switching.
46	P1A2	O	LW/MW	LN/MW switching.
47	P1A1	O	AGC	AGC output.
48	P1A0	O	AFC	AFC output.
49	P2A3	I	DATA	Sync u-com data input.
50	P2A2	I	START	Sync u-com start input.
51	P2A1	I	RCV	Sync u-com sync input.
52	P2A0	O	RESET	Sync u-com reset output.
53	P0B0	I/O	SRAMDATA	S-RAM data input/output.
54	S01	O	LCDDATA	LCD data output.
55	SCK1	O	LCDCLK	LCD clock output.
56	S10	I	DATA C	CD-CH control data input.
57	S00	O	DATAH *b	CD-CH control data output/*b CD-CH used/not used.
58	SCK0	I	SCK	CD-CH control clock input.
59	P0A2	O	REQH	CD-CH control request output.
60	P0A3	I	REQC	CD-CH control request input.

# KRC-654R D/L

## CIRCUIT DESCRIPTION

### Terminal Description (3)

No	Pin Name	I/O	Port Name	Function
61	GND2	-	GND	GND for digital circuitry.
62	P4A2	0	RCLKD	SRAM data clock.
63	P4A3	0	RCLKA	SRAM address clock.
64	Vdd2	-	Vdd	+5 V for digital circuitry.
65	P2B3	0	CE	Electronic volume control CE.
66	P2B2	0	CLK	Electronic volume control clock.
67	P2B1	0	DATA	Electronic volume control data.
68	P2B0	0		
69	P2C3	0	SRAM R/W	SRAM read/write.
70	P2C2	0	LCD-CE1	L C D C E 1
71	P2C1	0	LCD-CE2	L C D C E 2
72	P2C0	0	EQMUTE	EQ muting.
73	P0D3	I	NOISE	CRSC input.
74	P0D2	I	PACKIN	C cassette pack in signal.
75	P0D1	I	F/R	C cassette forward/reverse.
76	P0D0	I	EQMUTE	C cassette EQ muting.
77	P0C3	0	CDCON	CD-CH CD control.
78	P0C2	0	T-ADV	C cassette T-ADV output.
79	P0C1	0	MOTOR	C cassette motor output.
80	P0C0	0	LCD-INH	Panel LCD inhibit.

### How to initial the test mode

Press and hold "◀" and "RDS" together, while press the Power key to turn power ON.

Note that the volume is set to 0 dB at the start.

1. The test mode starts with LCD all-lighted mode.
2. Press the SOURCE key to proceed to the S meter display mode (for use in stopping sensitivity adjustment).
  - FM band "▶" = 20 dB
  - AM band "◀" = Stop level
3. Press the Power key again to quit the test mode and turn power OFF.

\*KRC-654R D/L:  → V

# KRC-654R D/L

## CIRCUIT DESCRIPTION

### Panel/main body connection terminals

1	CE 1	LCD driver 1 chip select.
2	CE 2	LCD driver 2 chip select.
3	GND	Ground.
4	ILL - A	Illumination (amber).
5	ILL - G	Illumination (green).
6	DIM	Dimmer.
7	D - GND	Digital ground.
8	KEY 4 / LCD - CLK	Key input (resistance type potential division to 4 CH) and LCD clock.
9	KEY 3 / LCD - DATA	Key input (resistance type potential division to 4 CH) and LCD data.
10	KEY 2	Key input (resistance type potential division to 5 CH).
11	KEY 1	Key input (resistance type potential division to 5 CH)
12	POWER	Power key (switch incorporating rotary encoder).
13	LCD - INH	LCD driver inhibit.
14	ENC - B	Rotary encoder B.
15	ENC - A	Rotary encoder A.

(Notes) • +5 V is generated from ILL-A/G.

• RESET is provided on the main body. (Remove the panel and press.)

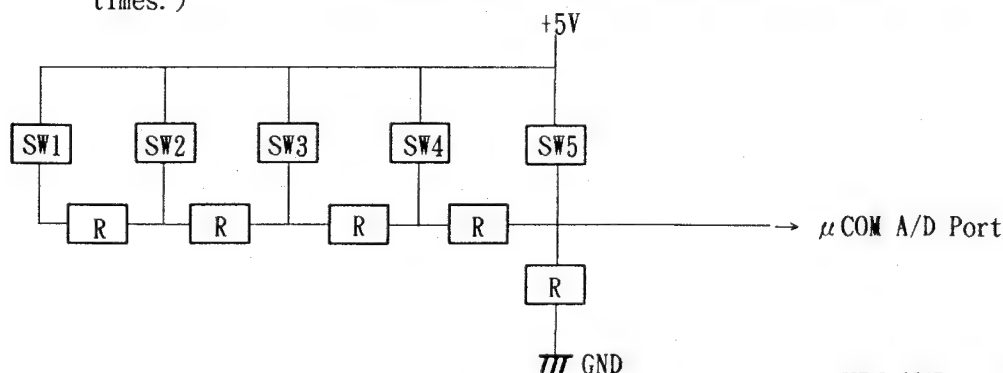
### Key matrix

	KEY1	KEY2	KEY3	KEY4
SW1	SOURCE	NO USE	TI/TI. VOL	④
SW2	ATT/CLK	LOUD/ILLM	②	⑤
SW3	LO. S/AME	RDS/LNSS	③	⑥
SW4	AUTO/TP. S	①	AM -	MONO / FM +
SW5	◀◀	▶▶+	※	※

(Notes) • "※" mark indicates that key cannot be assigned.

• Masking means the highest priority, so keys "◀◀-", "▶▶+", "FM +" and "AM -" are assigned to these positions.

(High priority → Key ON/OFF can always be detected even when a key is pressed several times.)



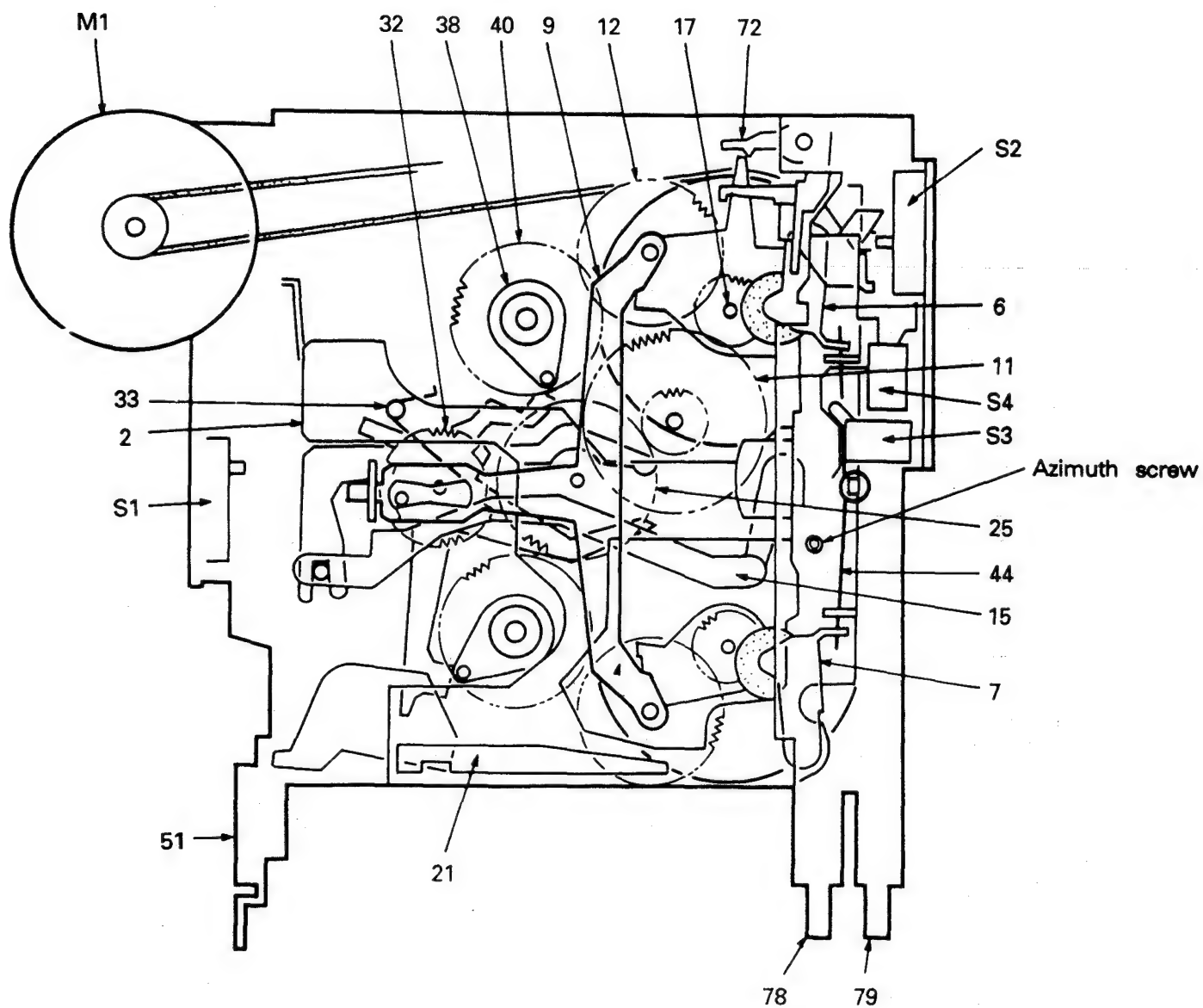
(Note) SW5 is not connected with KEY3 and KEY4.

\*KRC-654R D/L : ※ → √



# KRC-654R D/L

## MECHANISM DESCRIPTION

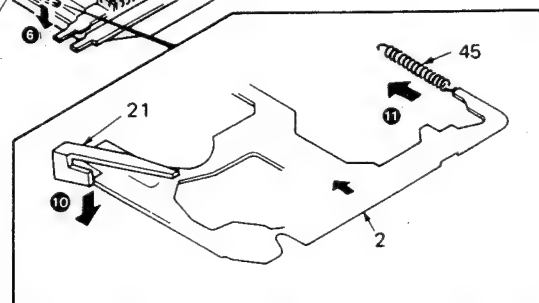
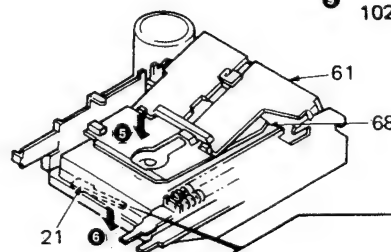
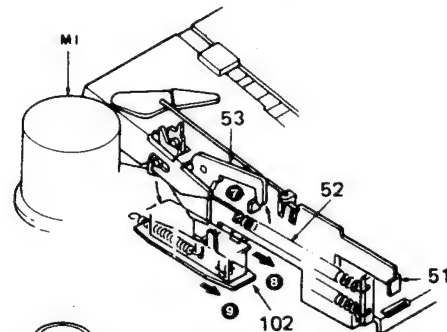
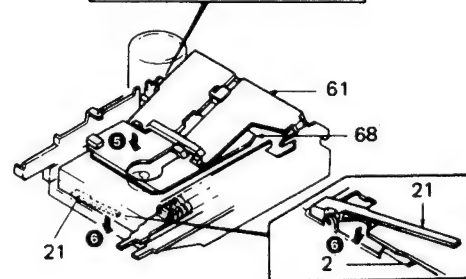
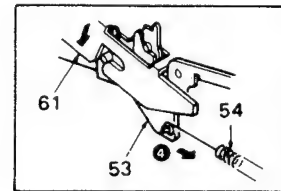
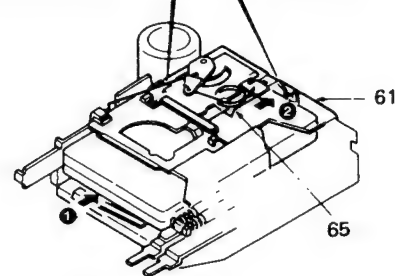
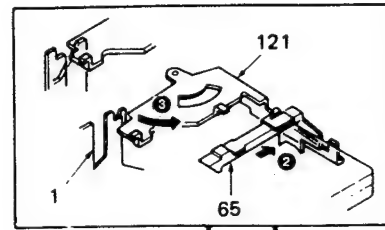


# KRC-654R D/L

## MECHANISM DESCRIPTION

### LOADING/PLAY

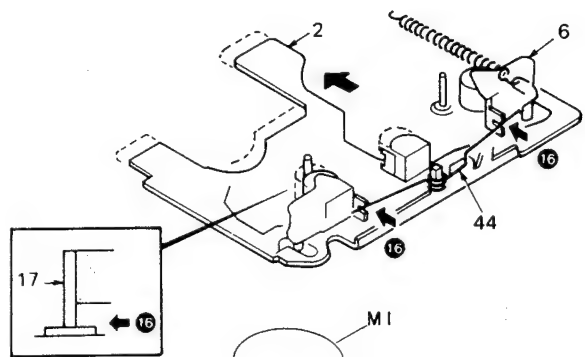
1. Insert a cassette tape (1).
2. The cassette guide (65) pushes to lever (reverse [121]) (2).
3. The lever (reverse [121]) turns in the direction of the arrow and releases the lock of the holder (action plate [61]) (3).
4. Through the lock release of the lever (reverse [121]), the arm (action [53]) is pulled by the tension spring (54), which turns the holder (action plate [61]). The holder (action plate) descends (4).
5. Through the descent of the holder (action plate [61]), the holder (cassette case [68]) also descends (5).
6. As the holder (cassette case [68]) descends, the cassette tape pushes the lever (lock plate [21]). The lever (lock plate [21]) then releases the lock of the lever assembly (head plate [2]) (6).
7. As the arm (action [53]) turns, the lock of the lever assembly (eject [51]) is released (7).
8. The lever assembly (eject [51]) is pulled by the tension spring (52) and moves forward (8).
9. Through the movement of the lever assembly (eject [51]), the lever (102) also moves forward and turns on the slide switch S1. As the slide switch S1 is turned on, electricity is supplied to the motor assembly (M1) (9).
10. As the holder (cassette case [68]) descends, the cassette tape pushes the lever (lock plate [21]) then releases the lock of the lever assembly (head plate [2]) (10).
11. The lever assembly (head plate [2]) is pulled by the tension spring (45) and moves forward (11).



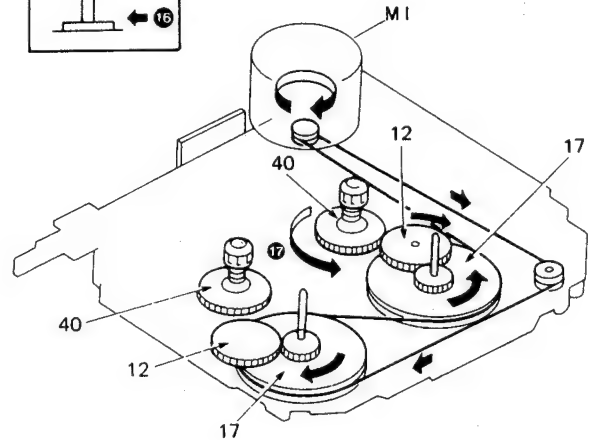
# KRC-654R D/L

## MECHANISM DESCRIPTION

12. Through the forward movement of the lever assembly (head plate [2]), pinch roller assembly (6) make close contact with the shaft of the flywheel (17) through the formed wire spring (44) (16).

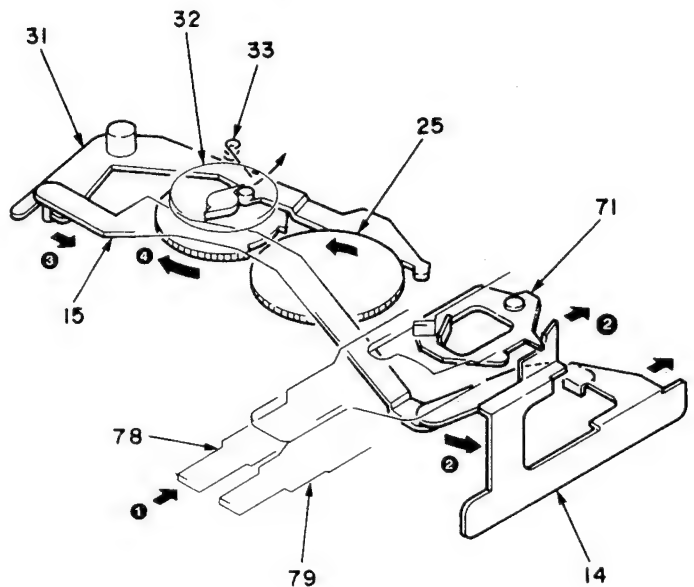


13. The rotation is transmitted from each gear (17-12) to the reel base (40) of the take-up side (17).

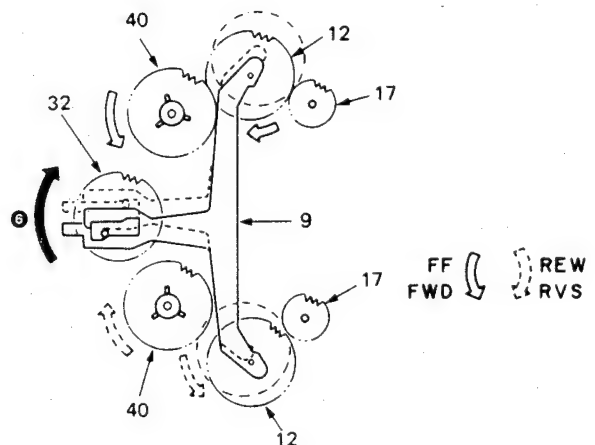


### PROGRAM

1. Push the FF and REW levers simultaneously (1).
2. The arm assembly (15) moves toward the right (2).
3. The lever (31) is pulled (3), and the changeover gear (32) is unlocked.
4. The changeover gear is pushed by the torsion spring (33), and engaged with the cam gear (25) (4).
5. The changeover gear (32) is rotated by a half turn and locked with the lever (31) again.

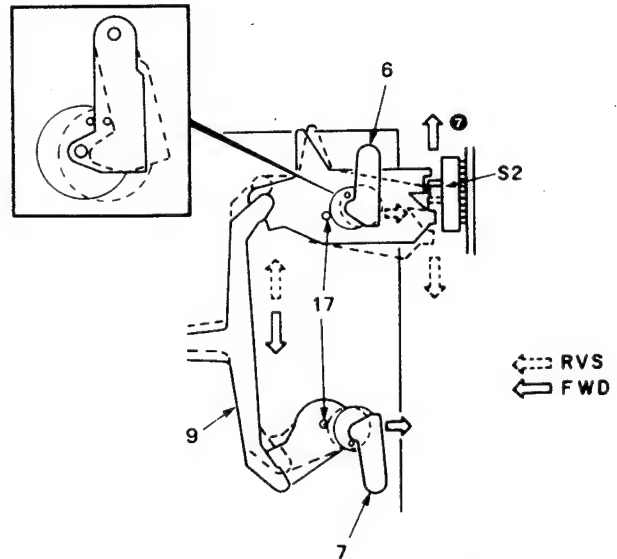


6. The movement of the boss of the changeover gear (32) moves the changeover arm (9) (6).



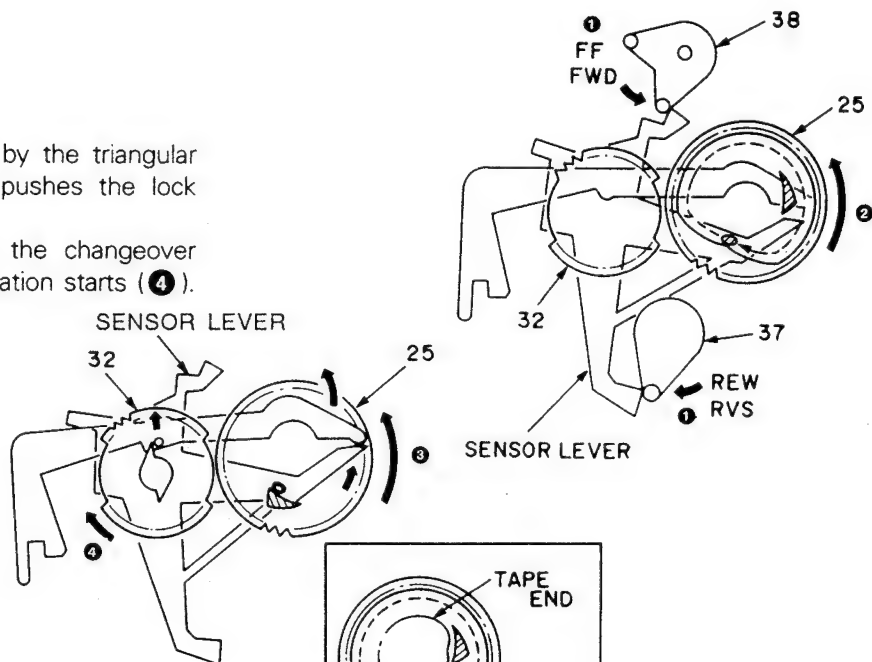
## MECHANISM DESCRIPTION

- When the changeover arm (9) moves, the drive direction of the reel base (40), head switch (S2) and pinch roller is switched between FWD and RVS (7).



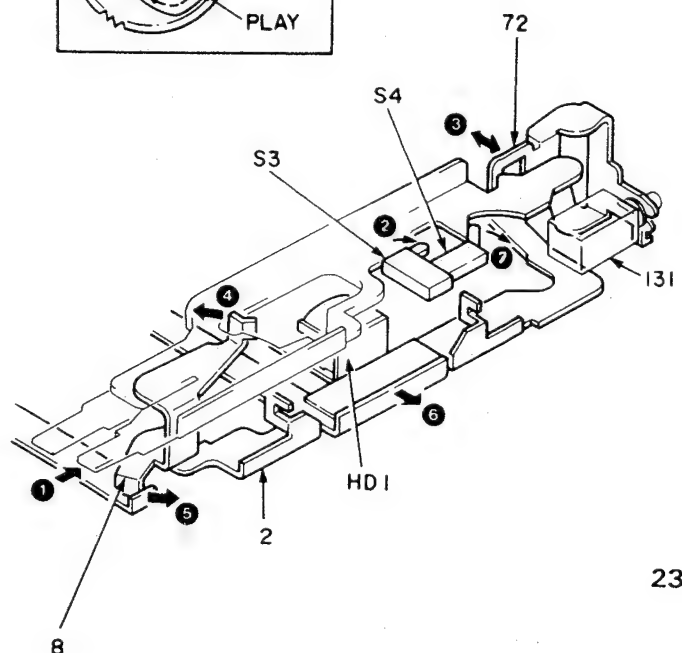
### AUTO REVERSE

- When the reel base (40) stops rotation at the end of tape, the arm (38) stops pushing the sensor lever (1).
- The sensor lever is engaged with the cam projection of the cam gear (25) and carried until the intermediate point of the cam gear (2).
- Then, the sensor lever is carried by the triangular boss of the cam gear (25) and pushes the lock lever (3).
- When the lock lever is pushed, the changeover gear rotates and the program operation starts (4).



### FF

- Push the lever FF (79) (1).
- Pushing the lever FF (79) closes the leaf switch (S3) and muting is applied (2).
- The lever FF (79) is locked by the arm (72) (3).
- By pushing the lever FF (79), the lever (8) is pushed in the direction of arrow (4).
- Through being pushed, the lever (8) moves the lever assembly (head plate [2]) backward a little (5). The playback head (HD1) and pinch roller also moves backward a little.
- The rotation of the reel base (40) is high-speeded by the speed selector switch (S4) (6).
- In the operation of T.ADV, electricity is supplied to the solenoid (131), which attracts the arm (FR release [72]). The lock on the arm (FR release [72]) is released, FF is released and FWD PLAY is engaged.

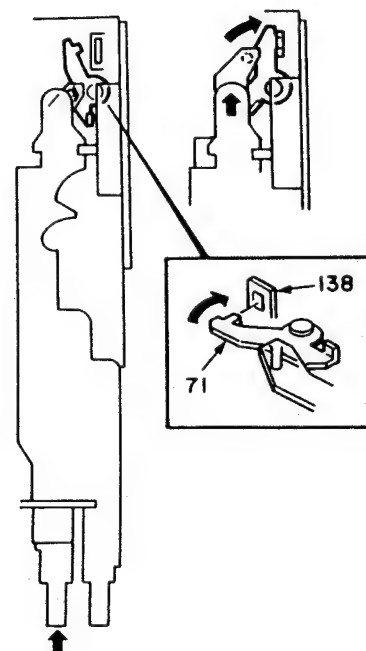
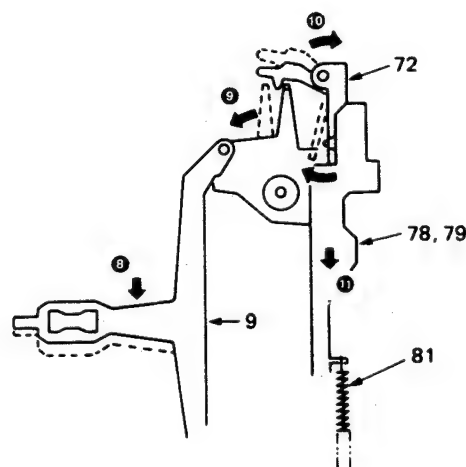
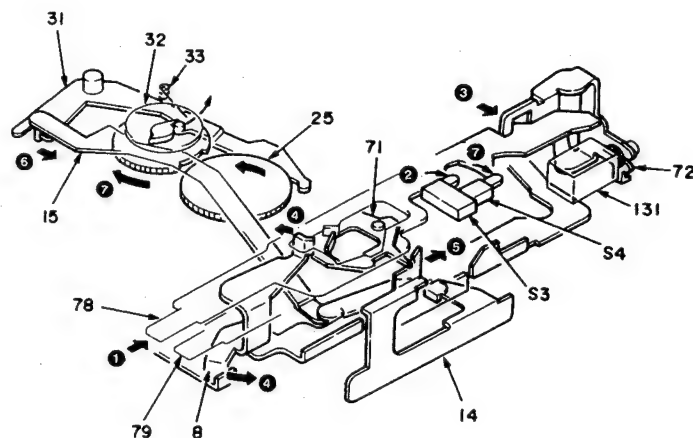


# KRC-654R D/L

## MECHANISM DESCRIPTION

### REW

1. Push the lever REW (78) (1).
2. Pushing the lever REW (78) closes the leaf switch (S3) and muting is applied (2).
3. The lever REW (78) is locked by the arm (72) (3).
4. By pushing the lever REW (78), the lever (8) is pushed in the direction of arrow (4).
5. Through being pushed, the lever (8) moves the lever assembly (head plate [2]) backward a little (5). Through the backward movement of the lever assembly, the playback head (HD1) and pinch roller (7) also moves backward a little.
6. This time, the lever REW (78) moves the arm assembly (15) and PROGRAM operation is engaged (6).
7. The rotation of the reel base (40) is high-speeded by the speed selector switch (S4) (7).
8. At the tape end during the operation of REW, the end sensor is activated, and the changeover arm (9) moves the arm (72) during the operation of PROGRAM (8) (9) (10). The lever REW (78) is released (11).
9. To release REW, slightly depress the lever FF (79).
10. By depressing the lever FF (79), the arm (72) moves, and the lever REW (78) returns by the tension spring (81) (11).
11. In the operation of T.ADV, electricity is supplied to the solenoid (131), which attracts the arm (FR release [72]). The lock on the arm (FR release [72]) is released, REW is released, and RVS PLAY is engaged.
12. In the channel select operation of this time, the actuator (138) is locked with a hook (71) so that the head select switch does not switch.

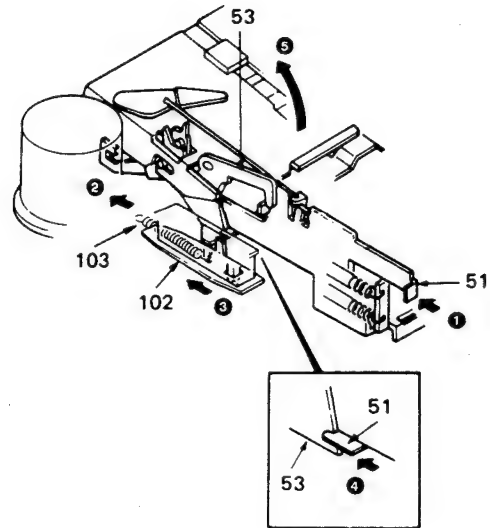


# KRC-654R D/L

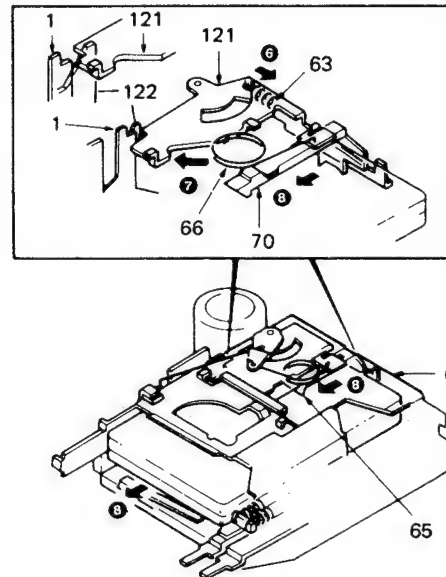
## MECHANISM DESCRIPTION

### EJECT

1. Push the lever assembly (eject [51]) (1).
2. By pushing the lever assembly (eject [51]), the tension spring (103) pushes the lever (102) (2).
3. Though pushing the lever (102), the slide switch (S1) is turned off, and the lever assembly (head plate [2]) moves backward (3).
4. The lever assembly (eject [51]) pushes and turns the arm (action [53]) (4).
5. By turning, the arm (action [53]) pushes up the holder (action plate [61]) (5).



6. When the holder (action plate [61]) is pushed up, the lever (reverse [121]) is pulled by the tension spring (63) and turns (6).
7. In turning, the lever (reverse [121]) is put on the lever of the mechanism chassis (122) (7).
8. The cassette guide (65) is pushed forward by the torsion coil spring (66), and the cassette tape is ejected (8).



# KRC-654R D/L

## ADJUSTMENT

Set the controls and switches as follows.

BALANCE	:center position	LOUD	:OFF	LOCAL	:OFF
FADER	:center position	T · ADV	:OFF	AUTO	:OFF
BASS	:center position	METAL	:OFF		
TREBLE	:center position	DOLBY NR	:OFF		

No	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER (RECEIVER) SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
<b>FM SECTION</b>							
1	DISCRIMINATOR	(A) 98.1MHz 0dev 60dB $\mu$ (ANT input)	Connect a DC voltmeter to TP1 (X86-1272)	FM 98.1MHz	T1 (X86-1272)	0V	(a)
2	SEPARATION	(C) 98.1MHz 1kHz, $\pm$ 40kHz dev Pilot: $\pm$ 6.0kHz dev Selector: L or R 60dB $\mu$ (ANT input)	(B)	FM 98.1MHz	VR7 (X14-3662)	Adjust it so that the crosstalk from L to R and R to L become minimum.	
3	ANRC	(C) 98.1MHz 1kHz, $\pm$ 40kHz dev Pilot: $\pm$ 6.0kHz dev Selector: L or R 35dB $\mu$ (ANT input)	(B)	FM 98.1MHz	VR3 (X86-1272)	Separation 10dB	
4	SEEK STOP LEVEL	(A) 98.1MHz 0 dev 20dB $\mu$ (ANT input)	*Test mode : ON	FM 98.1MHz	VR4 (X86-1272)	Adjust so that "▶" lights on the LCD.	
5	VCO	(A) 98.1MHz 0 dev 60dB $\mu$ (ANT input)	(F) Connect a frequency counter to TP2 (X14-3662)	FM 98.1MHz Connect a R(180K $\Omega$ ) between TP2 (X14-3662) and GND	VR8 (X14-3662)	19kHz	(b)
<b>SDK SECTION</b>							
6	DK LEVEL	(E) 98.1MHz 0 mod SK 5.33% DK 30% BK 60% 60dB $\mu$ (ANT input)	Connect a AC voltmeter to TP4 (X14-3662)	FM 98.1MHz SDK:OFF	L3 VR6 (X14-3662)	Maximum	(c)
<b>MW SECTION</b>							
(1)	SEEK STOP LEVEL	(D) 999KHz 400Hz, 30% mod 35dB $\mu$ (ANT input)	*Test mode : ON	MW 999kHz	VR5 (X14-3662)	Adjust so that "◀" lights on the LCD.	
<b>CASSETTE DECK SECTION</b>							
[1]	AZIMUTH	MTT-114 10kHz	(B)	TAPE PLAY	Head Azimuth Screw	Adjust the azimuth for each L CH / R CH or FWD / RVS becomes maximum	
[2]	PLAYBACK LEVEL	MTT-150	Connect a AC voltmeter to TP3(X14-3662)	TAPE PLAY	VR1(L) VR2(R) (X86-1272)	300mV	(d)

\*Test mode : Turn power ON while holding the **[RDS]** and **[V]** keys depressed. (All of the LCD elements light.) Then, press the **[SOURCE]** key.  
(Note) In the beginning of the test mode, the volume is set to the maximum level.

## ABGLEICH

Die Regler und Knöpfe wie folgt einstellen.

BALANCE :Mittelage	LOUD :OFF	LOCAL :OFF
FADER :Mittelage	T · ADV :OFF	AUTO :OFF
BASS :Mittelage	METAL :OFF	
TREBLE :Mittelage	DOLBY NR :OFF	

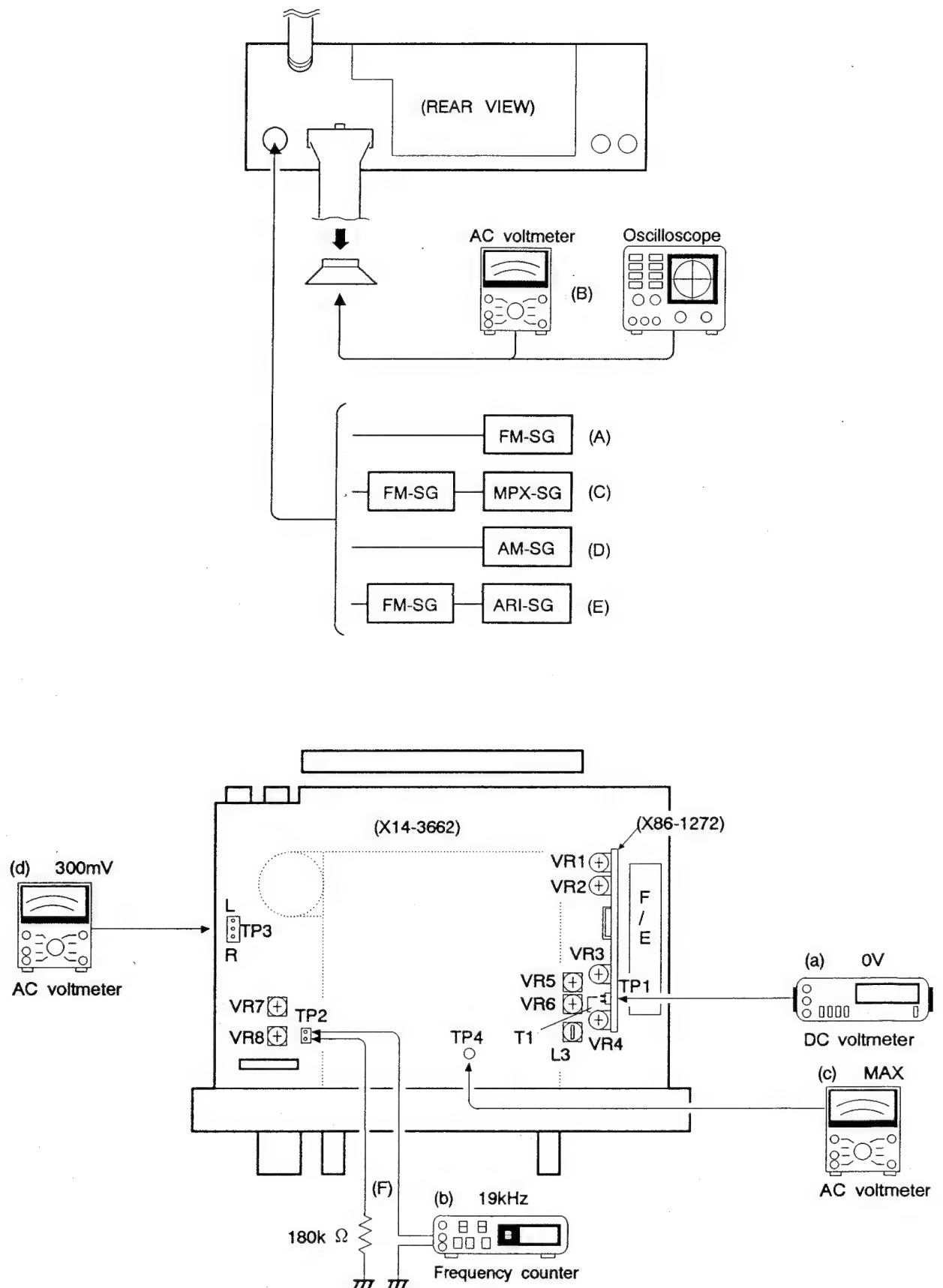
NR	GEGENSTAND	EINGANGS EINSTELLUNG	AUSGANGS EINSTELLUNG	TUNER (RECEIVER) EINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-ABTEILUNG							
1	DISKRI- MINATOR	(A) 98.1MHz 0 Hub 60dB $\mu$ (ANT-Eingang)	Den Gleichstrom Voltmeter zwischen den beiden Stiften von TP1 anschließen (X86-1272)	FM 98.1MHz	T1 (X86-1272)	0V	(a)
2	STEREO KANAL TRENNUNG	(C) 98.1MHz 1kHz, $\pm$ 40kHz Hub Pilot: $\pm$ 6.0kHz Hub Wahler : L or R 60dB $\mu$ (ANT-Eingang)	(B)	FM 98.1MHz	VR7 (X14-3662)	So einstellen, daß das Übersprechen von L auf R und von R auf L minimal wird.	
3	ANRC	(C) 98.1MHz 1kHz, $\pm$ 40kHz Hub Pilot: $\pm$ 6.0kHz Hub Wahler : L or R 35dB $\mu$ (ANT-Eingang)	(B)	FM 98.1MHz	VR3 (X86-1272)	Trennung 10dB	
4	SUCHEN HALT PEGEL	(A) 98.1MHz 0 Hub 20dB $\mu$ (ANT-Eingang)	*Testmodus: ON	FM 98.1MHz	VR4 (X86-1272)	So einstellen, daß "▶" auf dem LCD leuchtet.	
5	VCO	(A) 98.1MHz 0 Hub 60dB $\mu$ (ANT-Eingang)	(F)	FM 98.1MHz	VR8 (X14-3662)	19,000Hz	(b)
SDK-ABTEILUNG							
6	DK PEGEL	(E) 98.1MHz 0 mod SK 5.33% DK 30% BK 60% 60dB $\mu$ (ANT-Eingang)	Den wechsel- spannungsmesser zwischen den beiden Stiften von TP4 anschließen. (X14-3662)	FM 98.1MHz SDK:OFF	L3 VR6 (X14-3662)	Maximale	(c)
MW-ABTEILUNG							
(1)	HALT PEGEL	(D) 999kHz 400Hz, 30% mod 35dB $\mu$ (ANT-Eingang)	*Testmodus: ON	MW 999kHz	VR5 (X14-3662)	So einstellen, daß "◀" auf dem LCD leuchtet.	
CASSETTEN-DECK-ABTEILUNG							
[1]	AZIMUTH	MTT-114 10kHz	(B)	Bandwiedergabe	Kopfazimutschraube	So einstellen, daß das Azimuth für jeweils L-CH/R-CH oder FWD/RVS maximal wird.	
[2]	WIDERGABE PEGEL	MTT-150	Einen wechsel- spannungsmesser zwischen zu TP3 anschließen. (X14-3662)	Bandwiedergabe	VR1(L) VR2(R) (X86-1272)	300mV	(d)

\*Testmodus: Die Spannungsversorgung einschalten, während die Tasten **RDS** und **✓** gedrückt gehalten werden. (Alle Elemente des LCD leuchten.)  
Dann die Taste **SOURCE** drücken.  
(Hinweis) Am Anfang des Testmodus ist die Lautstärke auf den maximalen Pegel eingestellt.



# KRC-654R D/L

## ADJUSTMENT





# PC BOARD (Component side view)

SYNTHESIZER UNIT (X14-3662-XX)

SYNTHESIZER UNIT (X14-3662-XX)

Ref. No.	IC	Q	Address
1			5D
4			5C
5			4D
6			3D
7			4D
8			4D
9			4D
10			4D
11			3D
12			3E
13			1F
14			1F
15			6D
16			6E
17			6F
18			5G
21			4F
22			4H
23			6G
24			5G
25			3F

Ref. No.	IC	Q	Address
3			4C
4			4C
5			6D
6			6E
7			6D
8			6E
9			6E
10			6G
11			5C
12			5C
13			5B
14			5C
15			5C
16			5C
17			6C
18			6C
19			7D
20			7D
21			7D
22			5D
23			6B
24			4E
25			4E
28			5E
29			5E
30			4F
31			4F
32			5G
33			5I
34			5I
35			5I
36			5H
37			5H
38			5H
39			3I
40			5I
41			5I
42			5I
43			5I
44			3H
45			3G
46			3H
47			2G
48			3G
49			4H
50			4G
51			4I
52			4H
53			4H
54			2E
55			2F
56			3F
57			3F
58			3F
59			3F
60			3F
61			3F
62			3F
63			2F

(d) PLAYBACK LEVEL :  
300mV  
AV Voltmeter

(b) VCO : 19kHz  
Frequency counter

(c) DK LEVEL : Maximum  
AC Voltmeter

PANEL DET SV



# PC BOARD (Foil side view)

SYNTHESIZER UNIT(X14-3662-XX)

SYNTHESIZER UNIT  
(X14-3662-XX)

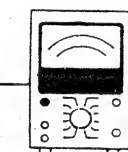
Ref. No.	IC	Q	Address
3	4S		
4	4S		
5	6R		
6	6O		
7	5R		
8	6P		
9	6P		
10	6O		
11	5S		
12	5R		
13	5S		
14	6S		
15	5S		
16	5S		
17	6S		
18	6S		
19	7O		
20	7O		
21	7O		
22	5R		
23	6S		
24	4P		
25	4P		
28	5P		
29	5P		
30	4P		
31	4O		
32	5N		
33	5M		
34	5M		
35	5M		
36	5M		
37	5N		
38	5N		
39	3L		
40	5L		
41	5L		
42	5L		
43	5L		
44	2N		
45	3N		
46	3N		
47	2N		
48	3O		
49	4N		
50	4N		
51	4L		
52	4N		
53	4N		
54	2P		
55	2P		
56	3P		
57	3P		
58	3O		
59	3O		
60	3O		
61	3P		
62	3P		
63	3P		

Ref. No.	IC	Q	Address
1			5Q
4			5R
5			4Q
6			3Q
7			4R
8			4Q
9			4R
10			3Q
11			3R
12			3Q
13			1Q
14			1O
15			6Q
16			6Q
17			6P
18			6N
21			5O
22			4N
23			6O
24			4O
25			3O

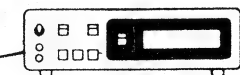
PANEL DET SW

RCA  
PREOUT  
Rch Lch

AV Voltmeter



(d) PLAYBACK LEVEL :  
300mV



(b) VCO : 19KHz  
Frequency counter

(c) DK LEVEL : Maximum  
AC Voltmeter

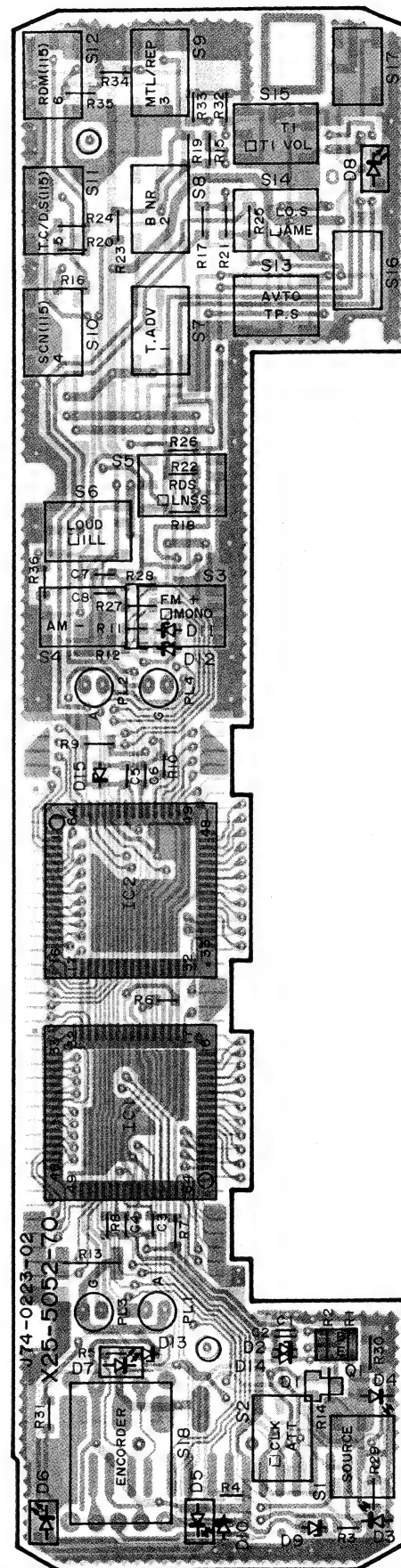
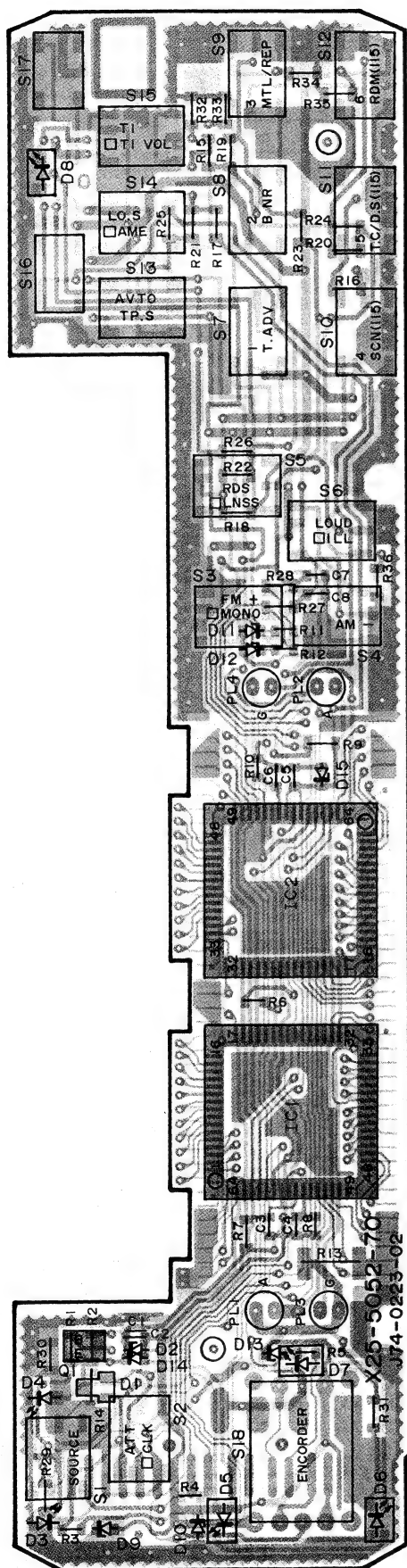
Refer to the schematic diagram for the values of resistors and capacitors.



# PC BOARD SWITCH UNIT (X25-5052-70)

(Component side view)

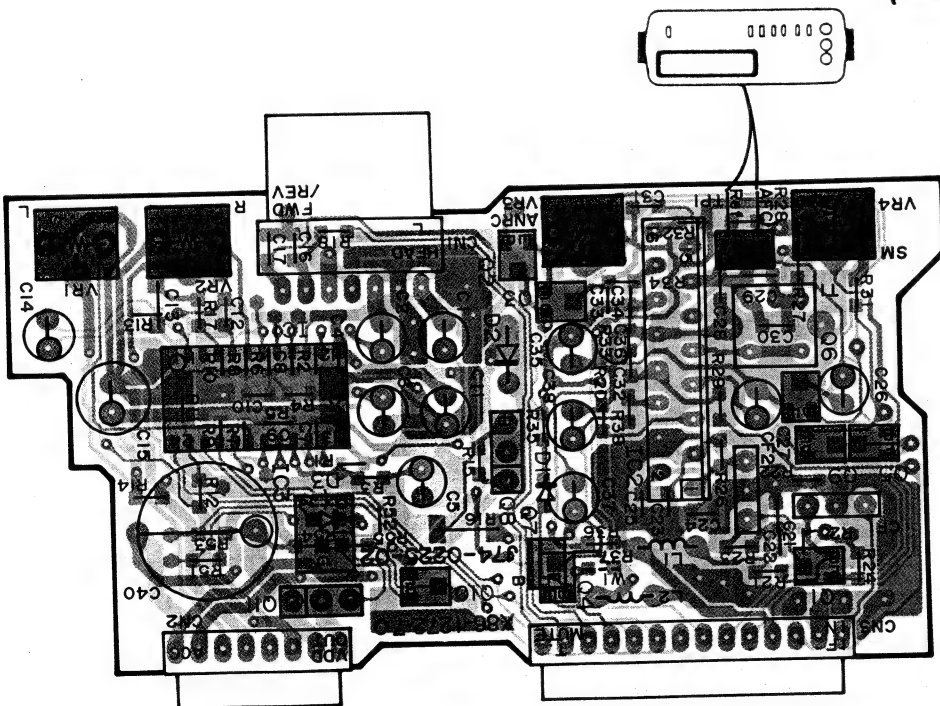
(Foil side view)



# PC BOARD

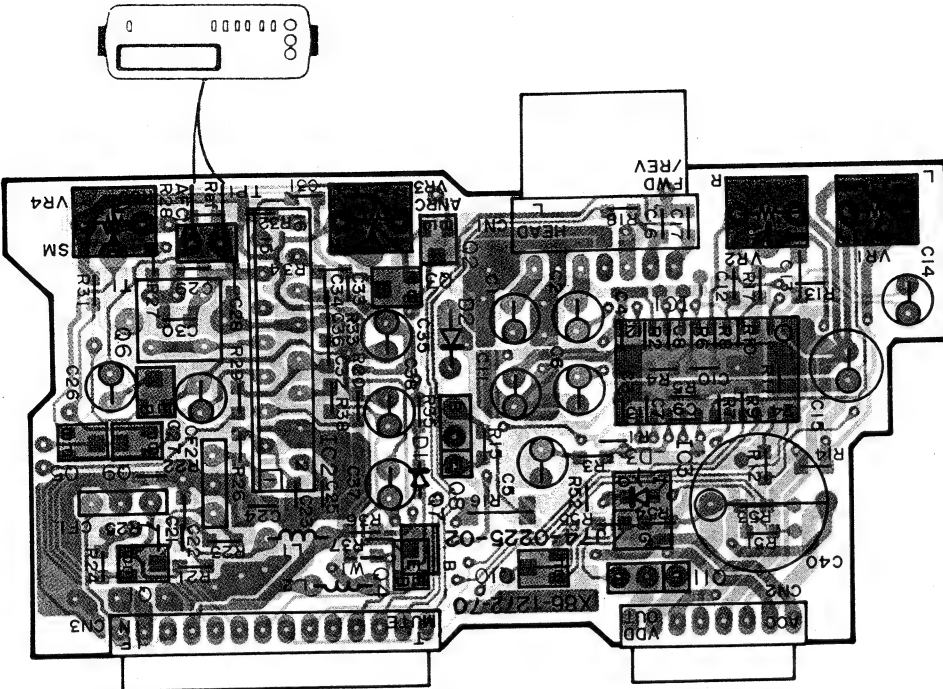
TUNER UNIT (X86-1272-70)

(Component side view)



Ref. No.	Q	IC	Address
1	3AB	3AC	
2	3AB		
3	3AB		
1	2AA		
2	3AB		
3	3AB		
4	2AB		
5	2AA		
6	2AB		
7	2AB		
8	3AB		
9	2AA		
10	2AB		
11	2AC		

TUNER UNIT  
(X86-1272-70)



Ref. No.	Q	IC	Address
1	3AB		
2	3AB		
3	3AB		
1	2AA		
2	3AB		
3	3AB		
4	2AB		
5	2AA		
6	2AB		
7	2AB		
8	3AB		
9	2AA		
10	2AB		
11	2AC		

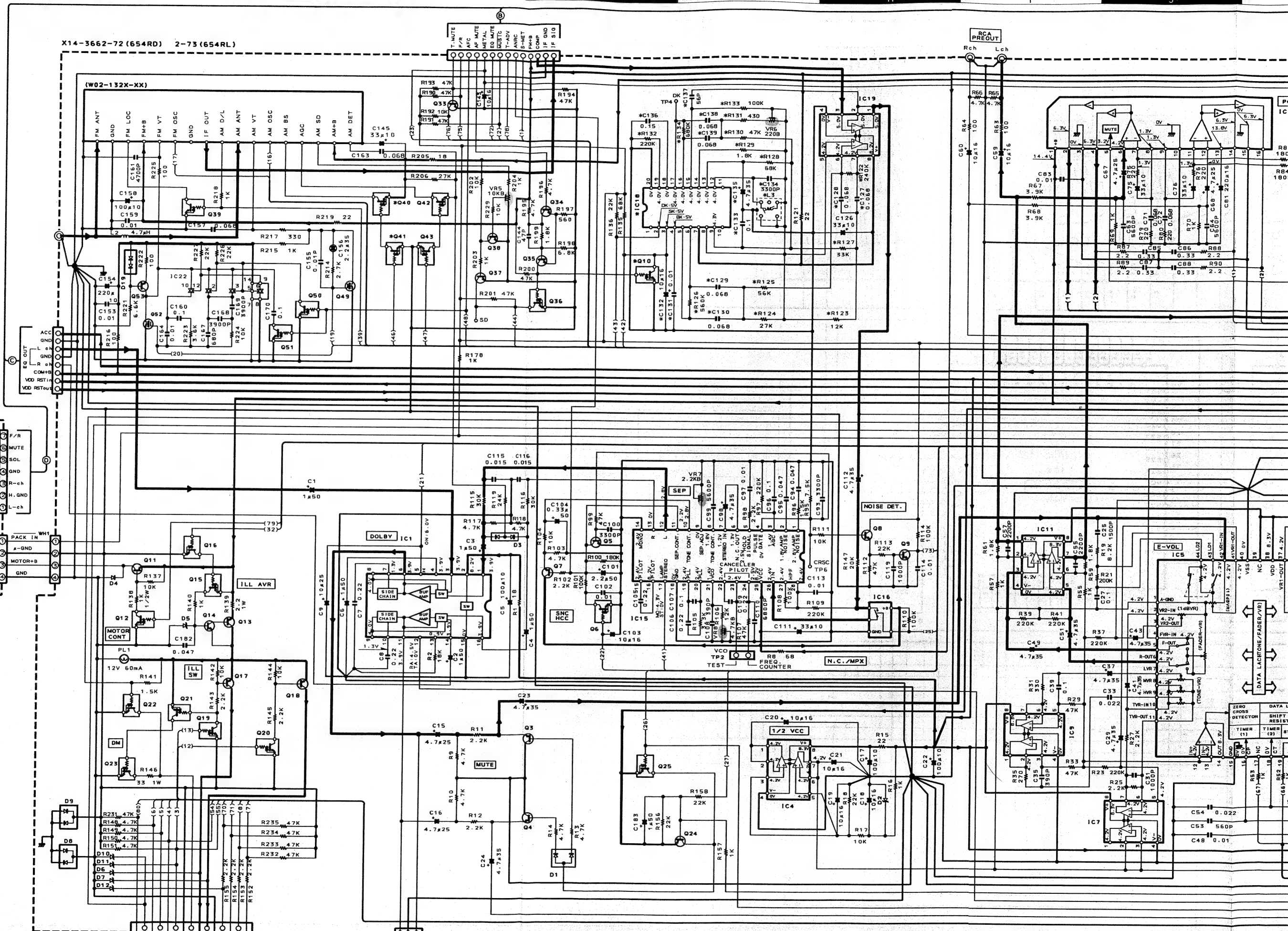
Refer to the schematic diagram for the values of resistors and capacitors

(a) DISCRIMINATOR : OV  
DC Voltmeter

X14-3662-72 (654RD) 2-73 (654RL)

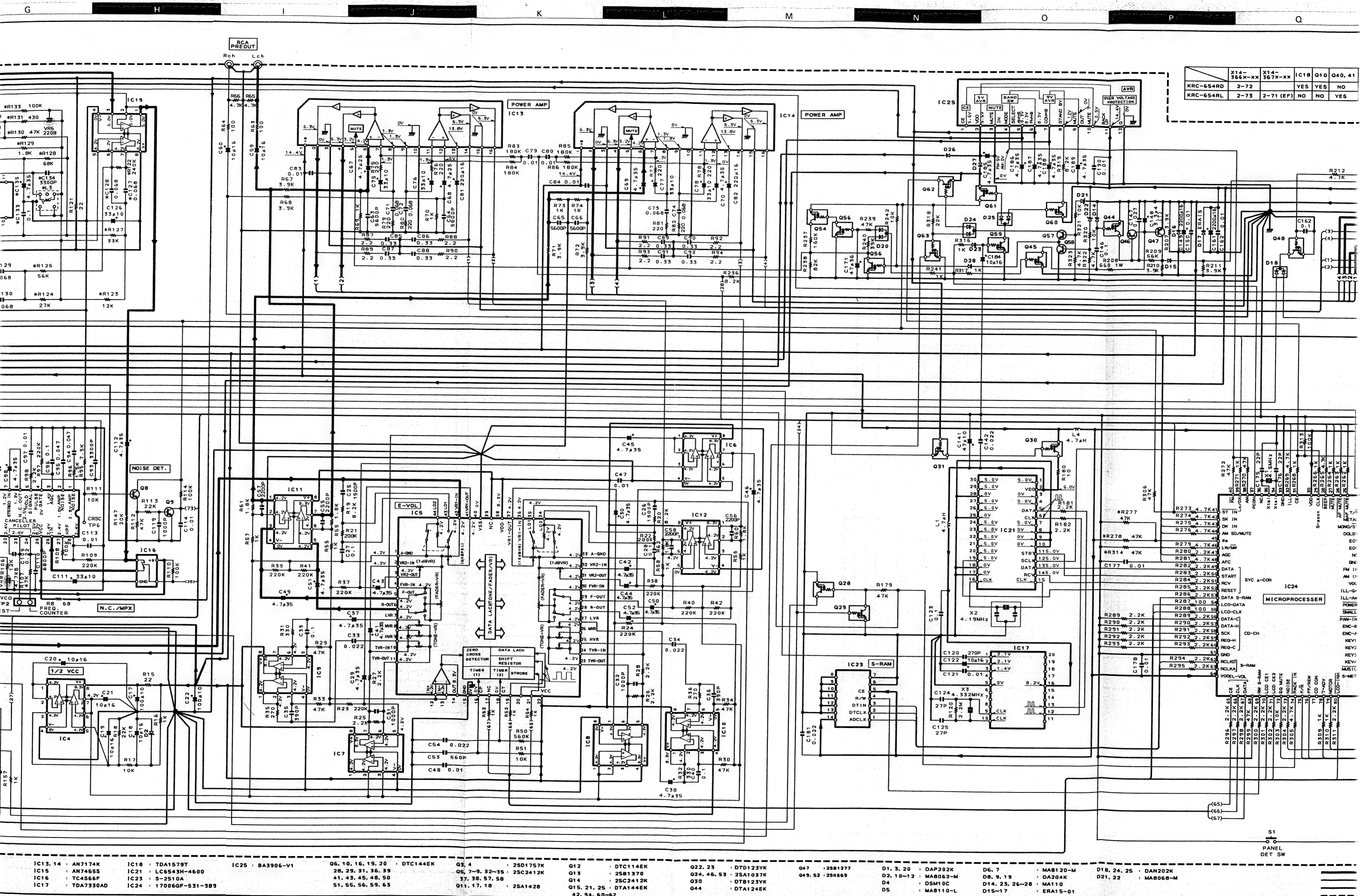
(W02-132X-XX)

D40-1035-05



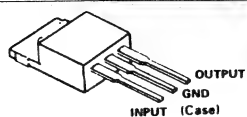
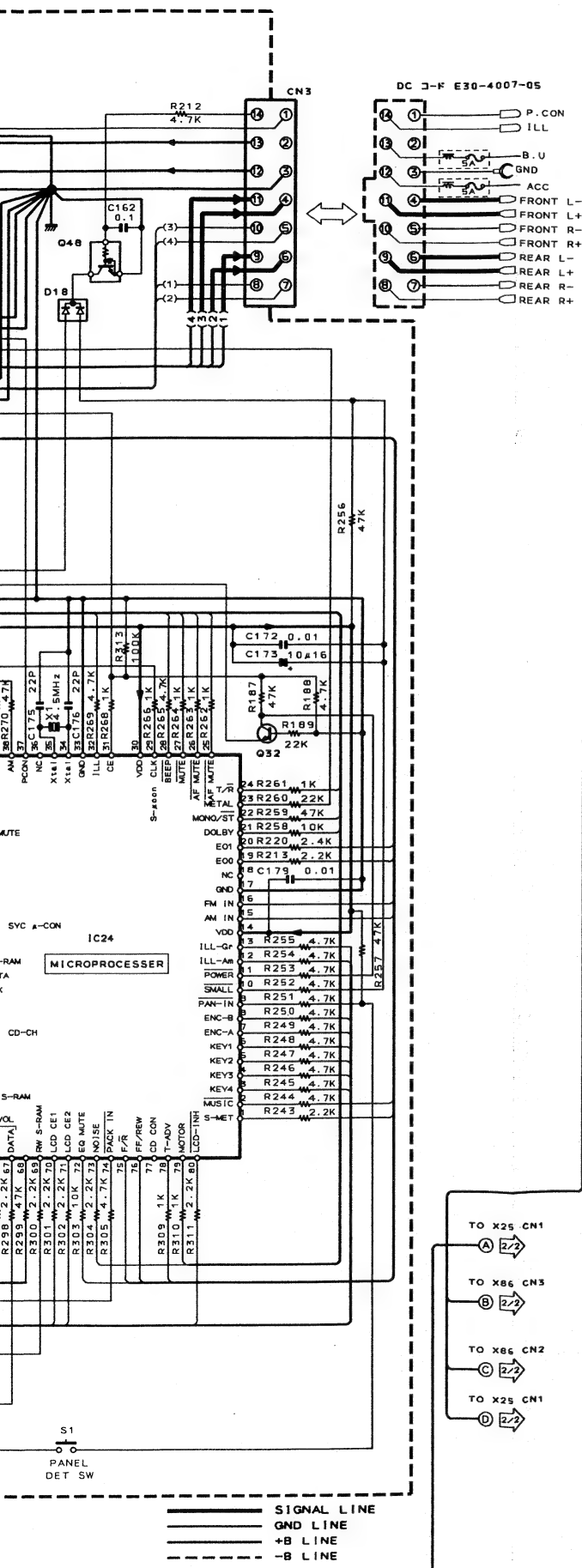
IC1	HA12134AF	IC13, 14	AN7174K	IC18	TD1579T	IC25	BA3906-V1	Q6, 10, 16, 19, 20	DTC144EK	Q3, 4	2
IC22	TC4066BF	IC15	AN7465S	IC21	LC6543H-4600			28, 29, 31, 36, 39		Q5, 7-9, 32-35	2
IC4, 6-12, 19	NJM4568MD	IC16	TC4566F	IC23	S-2510A			41, 43, 45, 48, 50		Q6, 37, 38, 57, 58	2
IC5	TC9233F	IC17	TD47330AD	IC24	17006GF-531-389			51, 55, 56, 59, 63		Q11, 17, 18	2







-xx	X14- 367X-xx	IC18	Q10	Q40, 41	C127~138	R122~134, 314	R277	R278	L3
72		YES	YES	NO	YES	YES	NO	YES	YES
73	2-71 (EF)	NO	NO	YES	NO	NO	YES	NO	NO



BA3430F	MA8068-M
DAN202K	MA8110-L
DA204K	MA8120-M
MA110	PST529E-MT
MA8056-M	TC9233FK
MA8062-M	1SS355



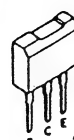
DTA124EK	DTD123YK
DTA144EK	2SA1037K
DTB123YK	2SC2412K
DTC114EK	2SC2413K
DTC124EK	2SD1757K
DTC144EK	



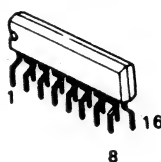
2SB1370



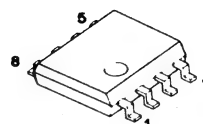
2SA1428



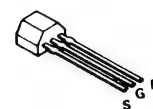
2SB1277



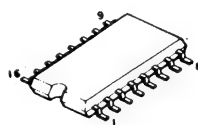
LA1140



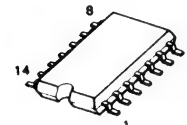
NJM4565MD



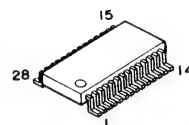
2SK669



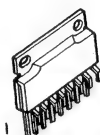
HA12134AF



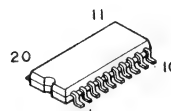
TC4066BF



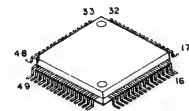
AN7465S



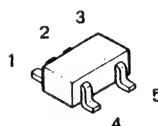
AN7174K



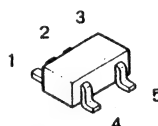
TDA1579T



LC7582E



TC4S66F



TC4S66F

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

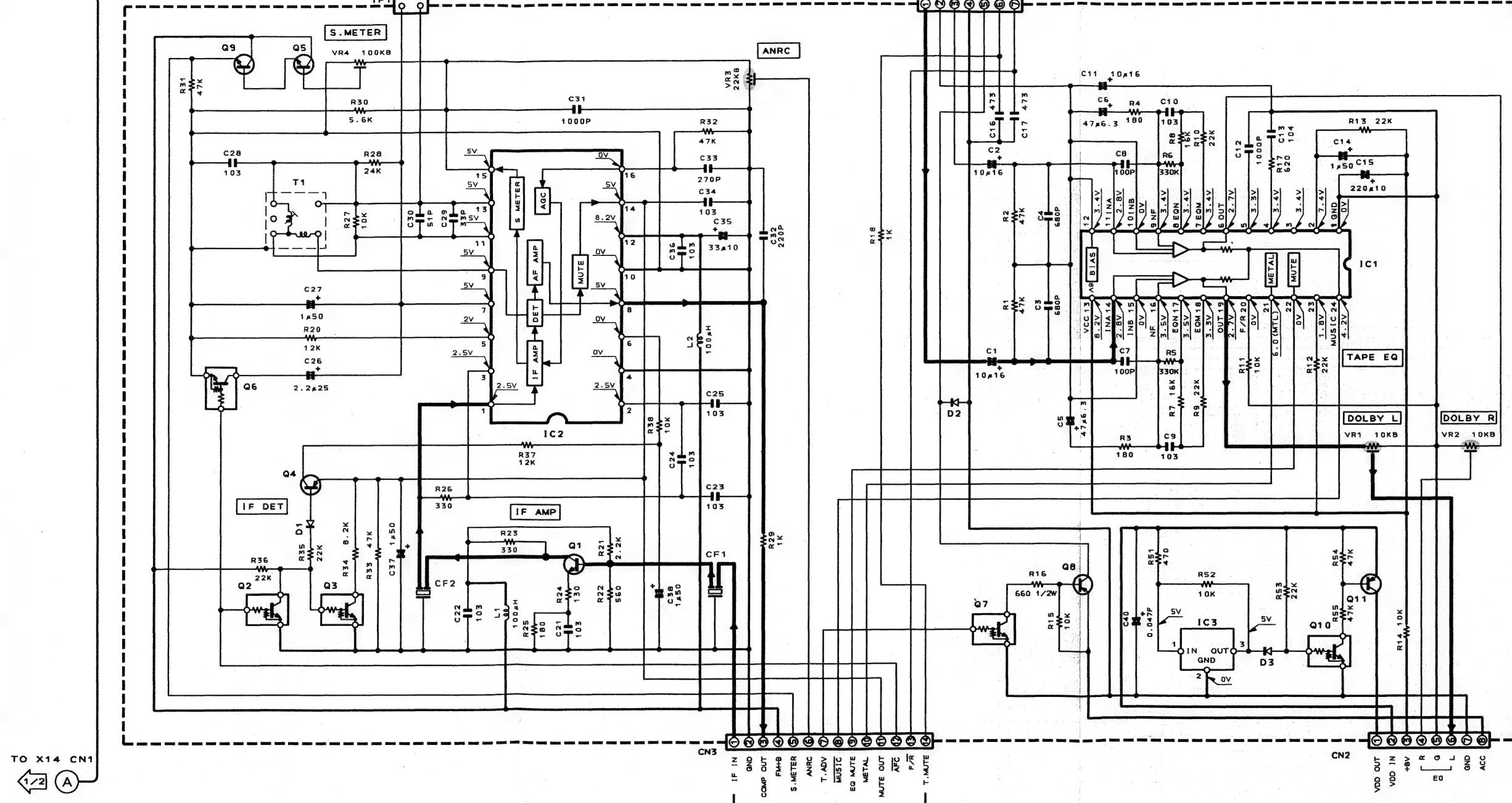
Y36-1622-72

**KRC-654R D/L**  
**KENWOOD**

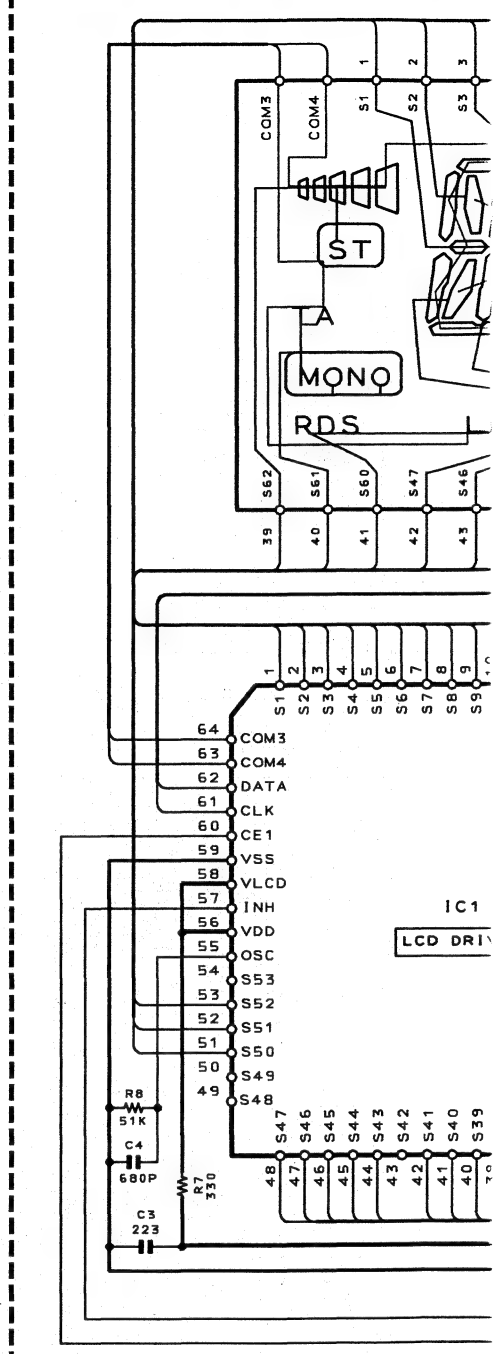
IC1 : BA3430F Q1 : 2SC2413K Q6, 10 : DTC144EK D1, 3 : MA110  
 IC2 : LA1140 Q2, 3 : DTC124EK Q7 : DTC114EK D2 : ERA15-01  
 IC3 : PST529E-MT Q4 : 2SA1037K Q8, 11 : 2SA1428  
 Q5, 9 : 2SC2412K

X86-1272-70

CN1 HEAD L HEAD COM HEAD R SOL GND SOL +B SOL +B MUTE FWD/REV

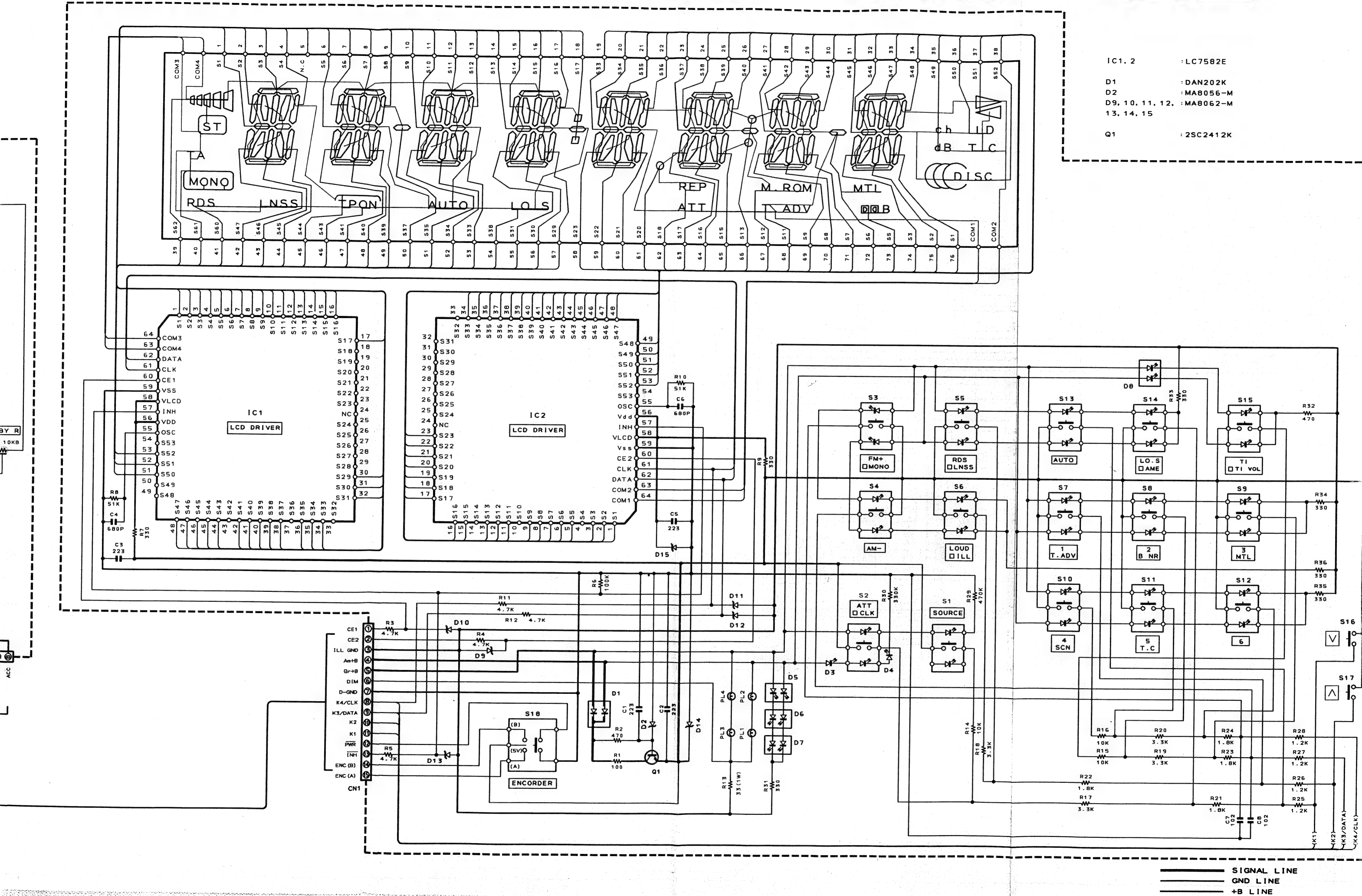



TO X14 CN1  
 1/2 A  
 TO X14  
 1/2 B  
 TO X14  
 1/2 C  
 TO D40  
 1/2 D



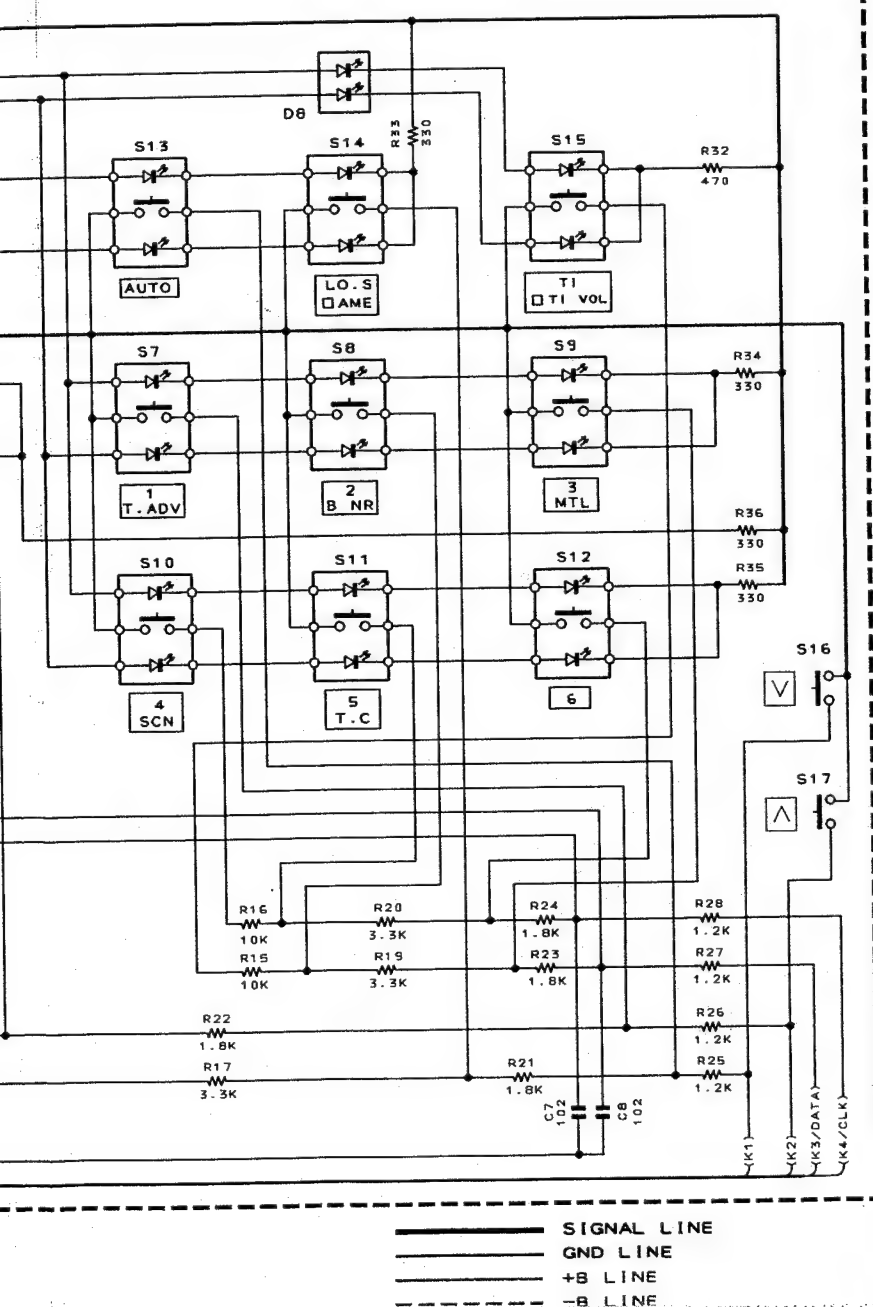
IC1  
 LCD DR1

X25-5052-70




 SIGNAL LINE  
 GND LINE  
 +B LINE

IC1, 2 : LC7582E  
 D1 : DAN202K  
 D2 : MA8056-M  
 D9, 10, 11, 12, : MA8062-M  
 13, 14, 15  
 Q1 : 2SC2412K



DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

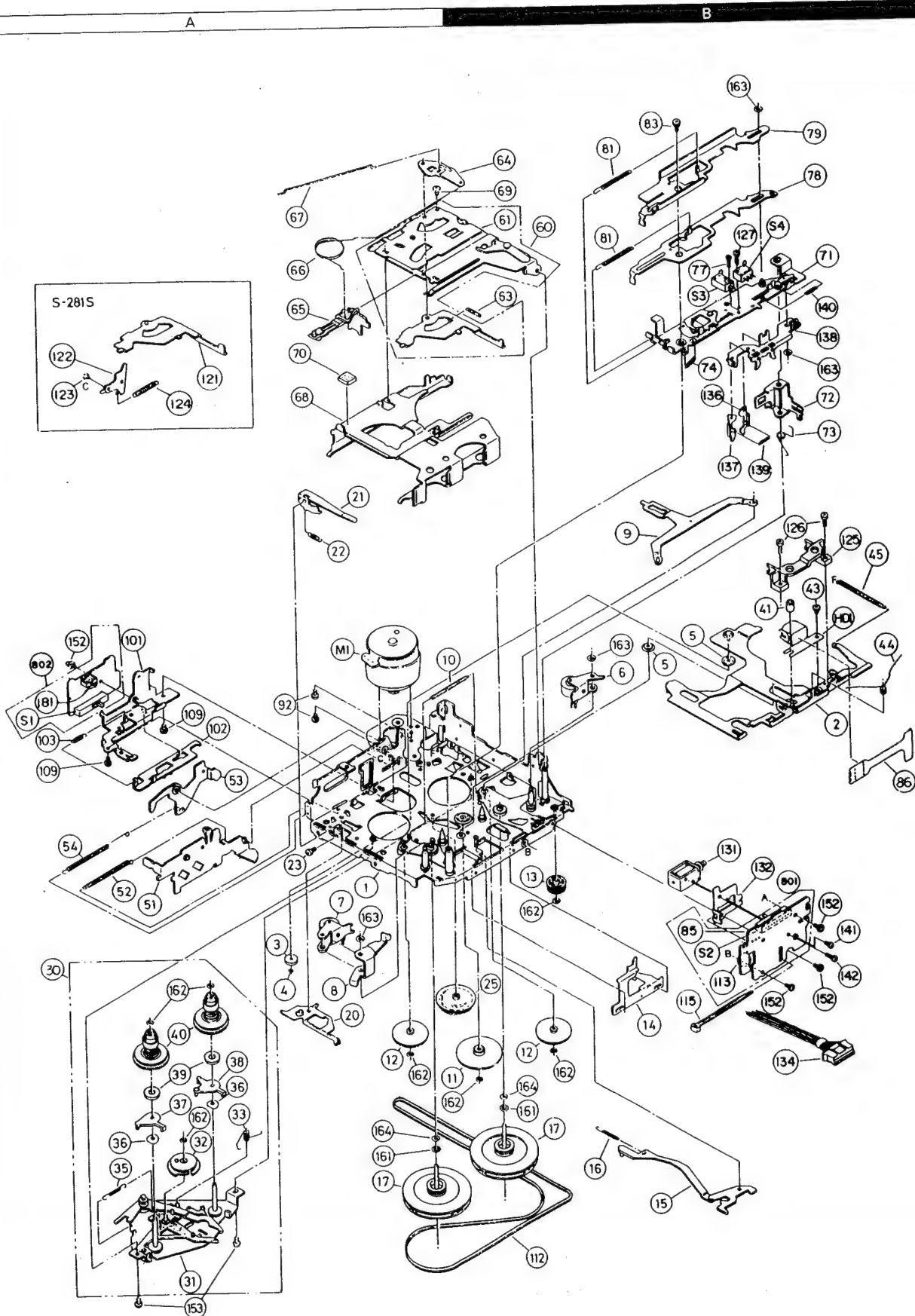
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (ref. parts list). Indicates safety critical components. To reduce risk of electric shock, leakage-current or resistance measurement shall be carried out (exposed parts are acceptably insulated the supply circuit) before the appliance is returned to the customer.

Y36-1622-72

**KRC-654R D/L**  
**KENWOOD**

# KRC-654R D/L

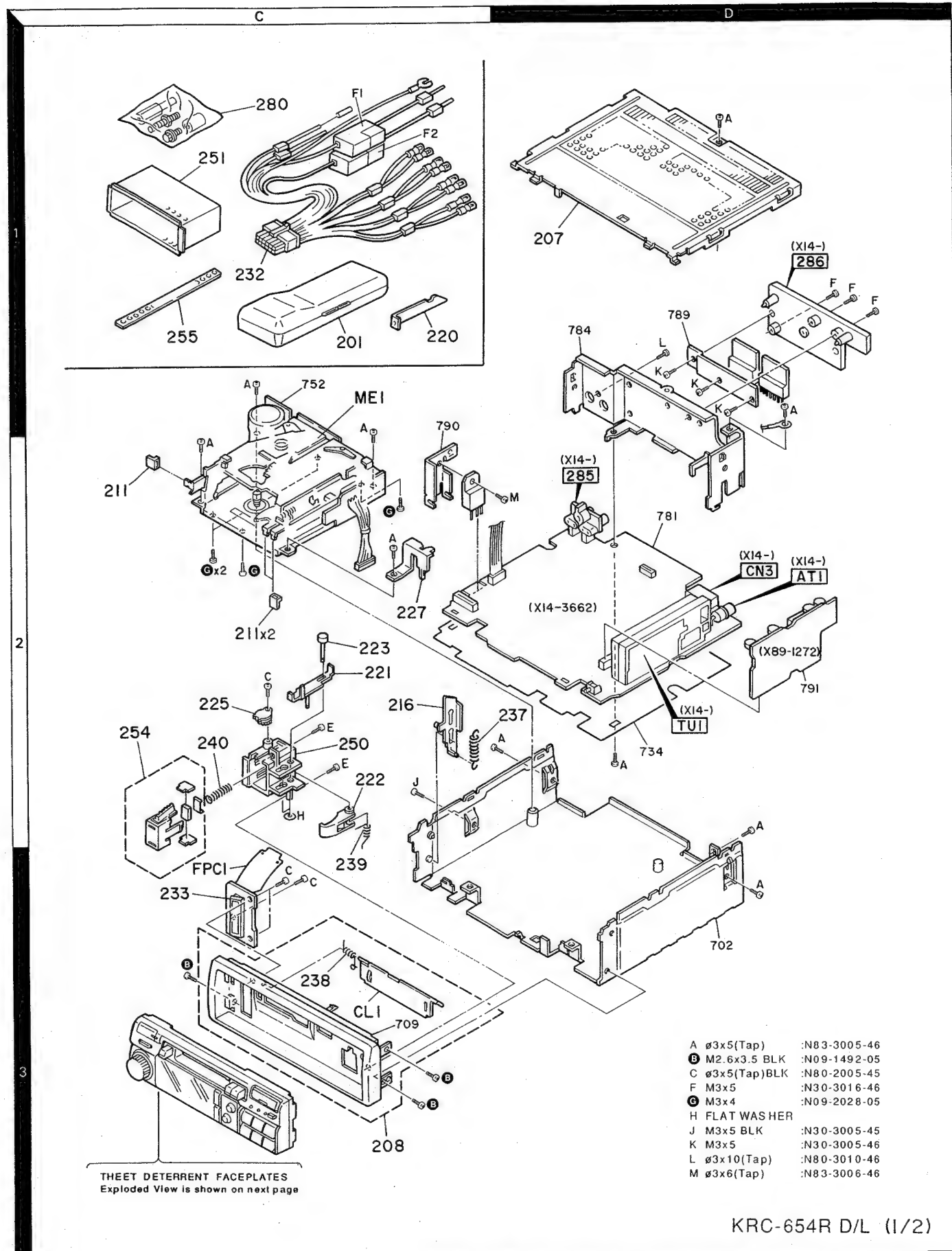
## EXPLODED VIEW (MECHANISM UNIT)





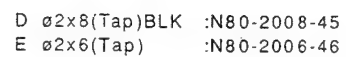
# KRC-654R D/L

## EXPLODED VIEW (UNIT)



KRC-654R D/L (1/2)

## 3



**Parts with the exploded numbers larger than 700 are not supplied.** 45

# KRC-654R D/L

## PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
KRC-654R D/L						
201	1C		A02-1413-11	PLASTIC CABINET		
205	1F	*	A46-1209-01	REAR COVER		
207	1D	*	A52-0649-02	TOP COVER		
CL1	3C	*	A53-1551-03	CASSETTE LID		
PA1	3E	*	A20-7860-02	PANEL ASSY	D	
PA1	3E	*	A20-7861-02	PANEL ASSY	L	
208	3C	*	B01-0858-03	PANEL ESCUTCHEON ASSY		
211	2C	*	B09-0513-04	CAP		
212	3E	*	B10-1508-03	FRONT GLASS	D	
212	3E	*	B10-1509-03	FRONT GLASS	L	
213	2E	*	B19-0916-03	LIGHTING BOARD		
-			B46-0100-20	WARRANTY CARD		
-			B46-0182-14	ID CARD	D	
-			B46-0606-04	ID CARD	L	
-		*	B64-0223-00	INSTRUCTION MANUAL		
-		*	B64-0224-00	INSTRUCTION MANUAL	L	
-		*	B64-0225-00	INSTRUCTION MANUAL	L	
216	3C		D10-2736-14	LEVER		
220	1C		D10-2740-04	LEVER		
221	2C	*	D10-2776-04	LEVER ASSY		
222	2C	*	D10-2778-14	ARM		
223	2C	*	D21-2127-04	SHAFT		
225	2C	*	D39-0211-05	DAMPER		
ME1	2C	*	D40-1035-05	CASSETTE MECHANISM ASSY		
226	2F	*	E29-1381-03	LEAD PLATE		
227	2C	*	E29-1382-04	LEAD PLATE		
232	1C	*	E30-4007-05	DC CORD (CRITICAL P.)		
233	3C		E58-0815-05	RECTANGULAR RECEPTACLE		
F1,2	1C		F06-5024-05	FUSE (5A)(ACC, B.U.)		
237	3C		G01-2040-04	EXTENSION SPRING		
238	3C		G01-2525-04	TORSION COIL SPRING		
239	3C	*	G01-2632-04	TORSION COIL SPRING		
240	2C		G01-2633-04	COMPRESSION SPRING		
241	2F		G01-2634-04	COMPRESSION SPRING		
242	2E	*	G01-2636-04	COMPRESSION SPRING		
245	2F	*	G11-1569-04	CUSHION		
246	2E	*	G11-1570-04	CUSHION		
-		*	H01-9447-04	ITEM CARTON CASE	D	
-		*	H01-9448-04	ITEM CARTON CASE	L	
-		*	H03-3516-04	OUTER CARTON CASE	D	
-		*	H03-3517-04	OUTER CARTON CASE	L	
-			H10-4393-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0329-04	PROTECTION BAG (280X450X0.03)		
-			H25-0337-04	PROTECTION BAG (180X300X0.03)		
250	2C	*	J19-4466-02	HOLDER		
251	1C		J21-7088-71	MOUNTING HARDWARE		
254	2C		J52-0037-04	MAGNET CATCH		
255	1C		J54-0059-04	STAY		
FPC1	3C		J84-0036-03	FLEXIBLE PRINTED WIRING BOARD		

E: Scandinavia & Europe K: USA

P: Canada

W: Europe

D: KRC-654R D

L: KRC-654R L

U: PX(Far East, Hawaii)

T: England

M: Other Areas

UE: AAFES(Europe)

X: Australia

△ indicates safety critical components.



## PARTS LIST

\* New Parts

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
260	2E		K23-1020-03	KNØB (VOL)		
261	2F		K24-0989-04	KNØB (AUTO...)		
262	2E		K24-0992-03	KNØB (ATT)		
263	3E	*	K24-1141-03	KNØB (4)		
264	3E		K24-1059-03	KNØB (5, T.C)		
265	3E	*	K24-1142-03	KNØB (6)		
266	3E		K24-1001-03	KNØB (1, T.A)		
267	3E		K24-1002-03	KNØB (2, DØLBY B)		
268	3E	*	K24-1140-03	KNØB (3, MTL)		
269	2F		K24-1128-14	KNØB (OPEN)		
270	2E	*	K24-1129-04	KNØB (EJECT)		
271	2E	*	K24-1130-04	KNØB (FF)		
272	2E	*	K24-1131-04	KNØB (REW)		
273	2E	*	K24-1143-04	KNØB (SOURCE)		
274	2E	*	K24-1144-04	KNØB (RDS)		
275	2E	*	K24-1147-04	KNØB (LD)		
276	2E	*	K25-0617-03	KNØB (AM, FM)		
277	3E	*	K25-0614-03	KNØB (TUNE)		
280	1C		N99-1570-05	SCREW SET		
A	2C, 2D		N83-3005-46	PAN HEAD TAPTITE SCREW		
B	3C		N09-1492-05	MACHINE SCREW (2.6X3.5)		
C	2C		N80-2005-45	PAN HEAD TAPTITE SCREW		
D	1F		N80-2008-45	PAN HEAD TAPTITE SCREW		
E	1F, 2C		N80-2006-46	PAN HEAD TAPTITE SCREW		
G	2C		N09-2028-05	MACHINE SCREW (M3X4)		
H	2C		N19-2022-04	FLAT WASHER		
J	2C		N30-3005-45	PAN HEAD MACHINE SCREW		
SYNTHESIZER UNIT (X14-3662-72 : D, 2-73 : L)						
PL1		*	B30-1385-05	LAMP		
C1 -4			C90-2608-05	ELECTRØ 1.0UF 50WV		
C5			CE04CW1A101M	ELECTRØ 100UF 10WV		
C6			C90-2608-05	ELECTRØ 1.0UF 50WV		
C7 ,8			C93-0025-05	CERAMIC 0.22UF K		
C9			C90-2597-05	ELECTRØ 10UF 16WV		
C15 ,16			CE04DW1E4R7M	ELECTRØ 4.7UF 25WV		
C17			CE04CW1A101M	ELECTRØ 100UF 10WV		
C18			C90-2597-05	ELECTRØ 10UF 16WV		
C19 -21			CE04DW1C100M	ELECTRØ 10UF 16WV		
C22			CE04CW1A101M	ELECTRØ 100UF 10WV		
C23 ,24			CE04CW1V4R7M	ELECTRØ 4R7UF 35WV		
C25 ,26			CK73FB1H152K	CHIP C 1500PF K		
C27 ,28			CK73EB1H104K	CHIP C 0.10UF K		
C29 ,30			CE04CW1V4R7M	ELECTRØ 4R7UF 35WV		
C31 ,32			CK73FB1H102K	CHIP C 1000PF K		
C33 ,34			CK73FB1H223KTA	CHIP C 0.022UF K		
C35 ,36			CK73FB1H391K	CHIP C 390PF K		
C37 ,38			CE04CW1V4R7M	ELECTRØ 4R7UF 35WV		
C39 ,40			CK73EB1H104K	CHIP C 0.10UF K		
C41 -46			CE04CW1V4R7M	ELECTRØ 4R7UF 35WV		
C47			CK73EB1H103K	CHIP C 0.01UF K		
C48			CK73FB1H103K	CHIP C 0.010UF K		
C49 -52			CE04CW1V4R7M	ELECTRØ 4R7UF 35WV		
C53			CK73FB1H561K	CHIP C 560PF K		
C54			CK73FB1H223KTA	CHIP C 0.022UF K		

E: Scandinavia &amp; Europe K: USA P: Canada W: Europe

U: PX(Far East, Hawaii) T: England M: Other Areas

UE: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

# KRC-654R D/L

## PARTS LIST

× New Parts

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
C55 -58 C59 ,60 C63 -66 C67 ,68 C69 ,70			CK73FB1H222K C90-2597-05 CK73FB1H562K CE04DW1H4R7M CE04CW1V4R7M	CHIP C 2200PF K ELECTR0 10UF 16WV CHIP C 5600PF K ELECTR0 4.7UF 50WV ELECTR0 4R7UF 35WV		
C71 -74 C75 ,76 C77 ,78 C79 ,80 C81 ,82			CK73EB1H683K C90-2544-05 CE04CW1A330M CK73FB1H103K C90-1770-05	CHIP C 0.068UF K ELECTR0 33UF 10WV ELECTR0 33UF 10WV CHIP C 0.010UF K ELECTR0 220UF 16WV		
C83 ,84 C85 -92 C93 C94 ,95 C96			CK73FB1H103K C93-1026-05 CK73FB1H332K CK73FB1E473KTA CK73EB1H104K	CHIP C 0.010UF K CERAMIC 0.33UF 16WV CHIP C 3300PF K CHIP C 0.047UF K CHIP C 0.10UF K		
C97 C98 C99 C100 C101			CK73FB1H103K CE04CW1V4R7M CK73FB1H562K CK73FB1H332K C90-2610-05	CHIP C 0.010UF K ELECTR0 4R7UF 35WV CHIP C 5600PF K CHIP C 3300PF K ELECTR0 2.2UF 50WV		
C102 C103 C104 C105,106 C107			CK73FB1H103K C90-2597-05 C90-2605-05 C93-0025-05 CK73EB1H104K	CHIP C 0.010UF K ELECTR0 10UF 16WV ELECTR0 0.33UF 50WV CERAMIC 0.22UF K CHIP C 0.10UF K		
C108 C109 C110 C111 C112		*	CQ92P2A391J C93-0025-05 CK73FB1H682K C90-2778-05 CE04CW1V4R7M	MYLAR 390PF J CERAMIC 0.22UF K CHIP C 6800PF K ELECTR0 33UF 10WV ELECTR0 4R7UF 35WV		
C113 C114 C115,116 C119 C120			CK73EB1H103K CK73FB1H103K CK73FB1H153KTA CK73FB1H102K CK73FB1H271K	CHIP C 0.01UF K CHIP C 0.010UF K CHIP C 0.015UF K CHIP C 1000PF K CHIP C 270PF K		
C121 C122 C123 C124,125 C126			CK73FB1H103K C90-2597-05 CK73EB1H104K CC73FCH1H270J CE04CW1A330M	CHIP C 0.010UF K ELECTR0 10UF 16WV CHIP C 0.10UF K CHIP C 27PF J ELECTR0 33UF 10WV		
C127,128 C129,130 C131 C132 C133			C91-2050-05 C93-0026-05 CK73FB1H103K C90-2597-05 CK73EB1H104K	CERAMIC 0.068UF Z CHIP C 0.068UF 50WV CHIP C 0.010UF K ELECTR0 10UF 16WV CHIP C 0.10UF K	D D D D D	
C134 C135 C136 C137 C138,139			CQ93AP2A332J CE04CW1V4R7M CK73EB1E154K CC73FCH1H560J C91-2050-05	POLYPR0 3300PF J ELECTR0 4R7UF 35WV CHIP C 0.15UF K CHIP C 56PF J CERAMIC 0.068UF Z	D D D D D	
C141 C142 C143 C144 C145			CE04CW0J470M CK73FB1H223KTA CE04NW1C100M CC73FCH1H470J CE04CW1A330M	ELECTR0 47UF 6.3WV CHIP C 0.022UF K ELECTR0 10UF 16WV CHIP C 47PF J ELECTR0 33UF 10WV		

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△ indicates safety critical components.

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C146			CK73EB1H104K	CHIP C 0.10UF K		
C147			CK73EB1H273K	CHIP C 0.027UF K		
C148			C92-0006-05	TANTAL 3.3UF 4WV		
C149			C90-2518-05	ELECTRØ 2200UF 16WV		
C150			CK73FB1H103K	CHIP C 0.010UF K		
C151			C90-2518-05	ELECTRØ 2200UF 16WV		
C152, 153			CK73FB1H103K	CHIP C 0.010UF K		
C154			CE04DW1A221M	ELECTRØ 220UF 10WV		
C155			CK73FB1H103K	CHIP C 0.010UF K		
C156			C90-2525-05	NP-ELECT 2.2UF 35WV		
C157			CK73EB1H683K	CHIP C 0.068UF K		
C158			CE04DW1A101M	ELECTRØ 100UF 10WV		
C159			CK73FB1H103K	CHIP C 0.010UF K		
C161			CK73EB1H472K	CHIP C 4700PF K		
C162			CK73EB1H104K	CHIP C 0.10UF K		
C163			CK73EB1H683K	CHIP C 0.068UF K		
C164			C93-1031-05	CERAMIC 0.01UF K		
C165, 166			C93-1032-05	CERAMIC 0.1UF K		
C167			CK73FB1H681K	CHIP C 680PF K		
C168, 169			CK73FB1H392K	CHIP C 3900PF K		
C170			C93-1032-05	CERAMIC 0.1UF K		
C171			CE04CW1V4R7M	ELECTRØ 4R7UF 35WV		
C172			CK73FB1H103K	CHIP C 0.010UF K		
C173			C90-2597-05	ELECTRØ 10UF 16WV		
C175, 176			CC73FCH1H220J	CHIP C 22PF J		
C177, 178			CK73FB1H103K	CHIP C 0.010UF K		
C179			CK73EB1H103K	CHIP C 0.01UF K		
C180, 181			CK73FB1H223KTA	CHIP C 0.022UF K		
C182			CK73FB1E473KTA	CHIP C 0.047UF K		
C183			C90-2608-05	ELECTRØ 1.0UF 50WV		
C184			C90-2597-05	ELECTRØ 10UF 16WV		
C185-189			CE04CW1V4R7M	ELECTRØ 4R7UF 35WV		
C190			CK73FB1H103K	CHIP C 0.010UF K		
285	2D	*	E63-0813-05	PHONO JACK		
AT1	2D	*	E04-0303-05	RF COAXIAL CABLE RECEPTACLE		
CN1			E40-5039-05	FLAT CABLE		
CN3	2D		E58-0804-05	RECTANGULAR RECEPTACLE		
WH1			E31-8122-05	LEAD WIRE		
286	1D	*	F01-1407-03	HEAT SINK		
L1 , 2			L40-4791-31	SMALL FIXED INDUCTOR(4.7UH)		
L3			L39-0156-05	TRAP COIL		
L4			L40-4791-31	SMALL FIXED INDUCTOR(4.7UH)		
X1			L77-1163-05	CRYSTAL RESONATOR		
X2			L78-0503-05	RESONATOR (4.00MHZ)		
X3			L77-2002-05	CRYSTAL RESONATOR(4.3320MHZ)		
-			N30-2605-46	PAN HEAD MACHINE SCREW		
A	2D		N83-3005-46	PAN HEAD TAPTITE SCREW		
F	1D		N30-3016-46	PAN HEAD MACHINE SCREW		
K	1D		N30-3005-46	PAN HEAD MACHINE SCREW		
L	1D		N80-3010-46	PAN HEAD TAPTITE SCREW		
M	2C		N83-3006-46	PAN HEAD TAPTITE SCREW		
R1			RK73FB2A180J	CHIP R 18 J 1/10W		
R2			RK73EB2B183J	CHIP R 18K J 1/8W		
R8			RK73EB2B680J	CHIP R 68 J 1/8W		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
R9			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R10			RK73EB2B472J	CHIP R 4.7K J 1/8W		
R11 ,12			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R13 ,14			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R15			RK73FB2A220J	CHIP R 22 J 1/10W		
R16			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R17			RK73FB2A103J	CHIP R 10K J 1/10W		
R18			RK73FB2A223J	CHIP R 22K J 1/10W		
R19 ,20			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R21 ,22			RK73FB2A204J	CHIP R 200K J 1/10W		
R23			RK73FB2A224J	CHIP R 220K J 1/10W		
R24			RK73EB2B224J	CHIP R 220K J 1/8W		
R25 -28			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R29			RK73EB2B473J	CHIP R 47K J 1/8W		
R30			RK73FB2A473J	CHIP R 47K J 1/10W		
R31 ,32			RK73FB2A331J	CHIP R 330 J 1/10W		
R33			RK73EB2B473J	CHIP R 47K J 1/8W		
R34			RK73FB2A473J	CHIP R 47K J 1/10W		
R35 ,36			RK73FB2A271J	CHIP R 270 J 1/10W		
R37 -41			RK73FB2A224J	CHIP R 220K J 1/10W		
R42			RK73EB2B224J	CHIP R 220K J 1/8W		
R50			RK73FB2A564J	CHIP R 560K J 1/10W		
R51			RK73FB2A103J	CHIP R 10K J 1/10W		
R52 -54			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R55 -57			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R58			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R59 -62			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R63 ,64			RK73FB2A101J	CHIP R 100 J 1/10W		
R65 ,66			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R67 ,68			RK73FB2A392J	CHIP R 3.9K J 1/10W		
R69 ,70			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R71 ,72			RK73FB2A392J	CHIP R 3.9K J 1/10W		
R73 ,74			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R75 -82			RK73FB2A221J	CHIP R 220 J 1/10W		
R83 -86			RK73FB2A184J	CHIP R 180K J 1/10W		
R87 -94			RK73EB2B2R2J	CHIP R 2.2 J 1/8W		
R95			RK73FB2A752J	CHIP R 7.5K J 1/10W		
R96			RK73FB2A152J	CHIP R 1.5K J 1/10W		
R97			RK73FB2A224J	CHIP R 220K J 1/10W		
R98			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R99			RK73FB2A473J	CHIP R 47K J 1/10W		
R100			RK73FB2A184J	CHIP R 180K J 1/10W		
R101			RK73FB2A104J	CHIP R 100K J 1/10W		
R102			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R103			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R104			RK73FB2A103J	CHIP R 10K J 1/10W		
R105			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R106			RK73FB2A123J	CHIP R 12K J 1/10W		
R107			RK73FB2A473J	CHIP R 47K J 1/10W		
R108			RK73FB2A104J	CHIP R 100K J 1/10W		
R109			RK73FB2A224J	CHIP R 220K J 1/10W		
R110			RK73FB2A104J	CHIP R 100K J 1/10W		
R111			RK73FB2A103J	CHIP R 10K J 1/10W		
R112			RK73FB2A473J	CHIP R 47K J 1/10W		
R113			RK73FB2A223J	CHIP R 22K J 1/10W		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
R114			RK73FB2A104J	CHIP R 100K J 1/10W		
R115, 116			RK73FB2A303J	CHIP R 30K J 1/10W		
R117, 118			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R119			RK73FB2A243J	CHIP R 24K J 1/10W		
R120			RK73FB2A225J	CHIP R 2.2M J 1/10W		
R121			RK73EB2B220J	CHIP R 22 J 1/8W		
R122			RK73FB2A244J	CHIP R 240K J 1/10W	D	
R123			RK73FB2A123J	CHIP R 12K J 1/10W	D	
R124			RK73FB2A273J	CHIP R 27K J 1/10W	D	
R125			RK73FB2A563J	CHIP R 56K J 1/10W	D	
R126			RK73FB2A564J	CHIP R 560K J 1/10W	D	
R127			RK73FB2A333J	CHIP R 33K J 1/10W	D	
R128			RK73EB2B683J	CHIP R 68K J 1/8W	D	
R129			RK73FB2A182J	CHIP R 1.8K J 1/10W	D	
R130			RK73EB2B473J	CHIP R 47K J 1/8W	D	
R131			RK73FB2A431J	CHIP R 430 J 1/10W	D	
R132			RK73FB2A224J	CHIP R 220K J 1/10W	D	
R133			RK73FB2A104J	CHIP R 100K J 1/10W	D	
R134			RK73FB2A684J	CHIP R 680K J 1/10W	D	
R135			RK73EB2B683J	CHIP R 68K J 1/8W	D	
R136			RK73FB2A223J	CHIP R 22K J 1/10W		
R137			RK73EB2B103J	CHIP R 10K J 1/8W		
R138			R92-0365-05	CHIP R 1K J 1/2W		
R139			R92-2104-05	CHIP R 2.2 J 1W		
R140			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R141			RK73FB2A152J	CHIP R 1.5K J 1/10W		
R142			RK73FB2A103J	CHIP R 10K J 1/10W		
R143			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R144			RK73FB2A103J	CHIP R 10K J 1/10W		
R145			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R146			R92-2015-05	CHIP R 33 J 1W		
R147			RK73FB2A203J	CHIP R 20K J 1/10W		
R148, 149			RK73EB2B472J	CHIP R 4.7K J 1/8W		
R150, 151			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R152-155			RK73EB2B222J	CHIP R 2.2K J 1/8W		
R156			RK73FB2A223J	CHIP R 22K J 1/10W		
R157			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R158			RK73FB2A223J	CHIP R 22K J 1/10W		
R159, 160			RK73FB2A104J	CHIP R 100K J 1/10W		
R164			RK73FB2A104J	CHIP R 100K J 1/10W		
R165			RK73FB2A473J	CHIP R 47K J 1/10W		
R166			RK73FB2A104J	CHIP R 100K J 1/10W		
R167			RK73FB2A473J	CHIP R 47K J 1/10W		
R178			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R179			RK73FB2A473J	CHIP R 47K J 1/10W		
R180			RK73FB2A100J	CHIP R 10 J 1/10W		
R181, 182			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R187			RK73FB2A473J	CHIP R 47K J 1/10W		
R188			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R189			RK73FB2A223J	CHIP R 22K J 1/10W		
R190			RK73EB2B473J	CHIP R 47K J 1/8W		
R191			RK73FB2A473J	CHIP R 47K J 1/10W		
R192			RK73FB2A103J	CHIP R 10K J 1/10W		
R193, 194			RK73FB2A473J	CHIP R 47K J 1/10W		
R195, 196			RK73FB2A472J	CHIP R 4.7K J 1/10W		

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R197			RK73FB2A561J	CHIP R 560 J 1/10W		
R198			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R199			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R200			RK73FB2A103J	CHIP R 10K J 1/10W		
R201			RK73FB2A473J	CHIP R 47K J 1/10W		
R202			RK73EB2B103J	CHIP R 10K J 1/8W		
R203, 204			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R205			RK73FB2A180J	CHIP R 18 J 1/10W		
R206			RK73FB2A273J	CHIP R 27K J 1/10W		
R207			RK73FB2A392J	CHIP R 3.9K J 1/10W		
R208			R92-0366-05	CHIP R 560 J 1W		
R209			RK73FB2A563J	CHIP R 56K J 1/10W		
R210, 211			RK73FB2A392J	CHIP R 3.9K J 1/10W		
R212			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R213			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R214			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R215			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R216			RK73EB2B101J	CHIP R 100 J 1/8W		
R217			RK73EB2B331J	CHIP R 330 J 1/8W		
R218			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R219			RK73FB2A220J	CHIP R 22 J 1/10W		
R220			RK73FB2A242J	CHIP R 2.4K J 1/10W		
R221			RK73EB2B562J	CHIP R 5.6K J 1/8W		
R222			RK73FB2A101J	CHIP R 100 J 1/10W		
R223			RK73FB2A362J	CHIP R 3.6K J 1/10W		
R224			RK73FB2A183J	CHIP R 18K J 1/10W		
R225			RK73FB2A101J	CHIP R 100 J 1/10W		
R226, 227			RK73FB2A223J	CHIP R 22K J 1/10W		
R229			RK73FB2A103J	CHIP R 10K J 1/10W		
R231			RK73FB2A473J	CHIP R 47K J 1/10W		
R232, 233			RK73EB2B473J	CHIP R 47K J 1/8W		
R234, 235			RK73FB2A473J	CHIP R 47K J 1/10W		
R236			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R237		*	RK73EB2B154J	CHIP R 150K J 1/8W		
R238			RK73FB2A823J	CHIP R 82K J 1/10W		
R239			RK73FB2A473J	CHIP R 47K J 1/10W		
R240			RK73FB2A393J	CHIP R 39K J 1/10W		
R241			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R242			RK73FB2A103J	CHIP R 10K J 1/10W		
R243			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R244-255			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R256, 257			RK73FB2A473J	CHIP R 47K J 1/10W		
R258			RK73FB2A103J	CHIP R 10K J 1/10W		
R259			RK73FB2A473J	CHIP R 47K J 1/10W		
R260			RK73EB2B223J	CHIP R 22K J 1/8W		
R261			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R262-264			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R265			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R266			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R268			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R269			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R270			RK73FB2A473J	CHIP R 47K J 1/10W		
R271			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R272			RK73FB2A473J	CHIP R 47K J 1/10W		
R273-276			RK73FB2A472J	CHIP R 4.7K J 1/10W		

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R277			RK73FB2A473J	CHIP R 47K J 1/10W	L	
R278			RK73FB2A473J	CHIP R 47K J 1/10W	D	
R279			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R280			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R281			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R282-284			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R285			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R286			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R287, 288			RK73FB2A101J	CHIP R 100 J 1/10W		
R289-293			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R294			RK73EB2B222J	CHIP R 2.2K J 1/8W		
R295-298			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R299			RK73EB2B473J	CHIP R 47K J 1/8W		
R300-302			RK73EB2B222J	CHIP R 2.2K J 1/8W		
R303			RK73EB2B103J	CHIP R 10K J 1/8W		
R304			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R305			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R306			RK73FB2A473J	CHIP R 47K J 1/10W		
R308			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R309, 310			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R311			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R313			RK73FB2A104J	CHIP R 100K J 1/10W		
R314			RK73FB2A473J	CHIP R 47K J 1/10W	D	
R316, 317			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R318			RK73FB2A223J	CHIP R 22K J 1/10W		
R319			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R320, 321			RK73FB2A103J	CHIP R 10K J 1/10W		
R322, 323			RK73FB2A472J	CHIP R 4.7K J 1/10W		
VR 5			R12-3685-05	TRIMMING POT.(10K)		
VR 6			R12-0605-05	TRIMMING POT.(220)	D	
VR 7			R12-1617-05	TRIMMING POT.(2.2K)		
VR 8		*	R12-1619-05	TRIMMING POT.(4.7K)		
W1 , 2			R92-2052-05	CHIP R 0 J 1/10W		
W11			R92-2052-05	CHIP R 0 J 1/10W		
S1			S40-1139-05	PUSH SWITCH		
D1			DAP202K	DIODE		
D2			MA8062-M	ZENER DIODE		
D3			DAP202K	DIODE		
D4			DSM10C	DIODE		
D5			MA8110-L	ZENER DIODE		
D6 , 7			MA8120-M	ZENER DIODE		
D8 , 9			DA204K	DIODE		
D10 -12			MA8062-M	ZENER DIODE		
D14			MA110	DIODE		
D14			1SS355	DIODE		
D15 , 16			ERA15-01	DIODE		
D17			ERA15-01	DIODE		
D18			DAN202K	DIODE		
D19			DA204K	DIODE		
D20			DAP202K	DIODE		
D21 , 22			MA8068-M	ZENER DIODE		
D23			MA110	DIODE		
D23			1SS355	DIODE		
D24 , 25			DAN202K	DIODE		

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D26 -28 D26 -28 IC1 IC4 IC5			MA110 1SS355 HA12134AF NJM4565MD TC9233FK	DIODE DIODE IC(DOLBY B NR SYSTEM) IC(OP AMP X2) IC		
IC6 -12 IC13, 14 IC15 IC16 IC17			NJM4565MD AN7174K AN7465S TC4S66F TDA7330AD	IC(OP AMP X2) IC(AF AMP) IC(FM MPX) IC(BILATERAL SWITCH) IC		
IC18 IC19 IC21 IC22 IC23			TDA1579T NJM4565MD LC6543H-4600 TC4066BF S-2510A	IC(DECODER) IC(OP AMP X2) IC IC(BILATERAL SWITCH) IC	D	
IC24 IC25 Q3 , 4 Q5 Q6		*	17006GF-531-3B9 BA3906-V1 2SD1757K 2SC2412K DTC144EK	IC IC(POWER SUPPLY) TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
Q7 -9 Q10 Q11 Q12 Q13			2SC2412K DTC144EK 2SA1428 DTC114EK 2SB1370	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR	D	
Q14 Q15 Q16 Q17 , 18 Q19 , 20			2SC2412K DTA144EK DTC144EK 2SA1428 DTC144EK	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
Q21 Q22 , 23 Q24 Q25 Q28 , 29			DTA144EK DTD123YK 2SA1037K DTA144EK DTC144EK	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q30 Q31 Q32 -35 Q36 Q37 , 38			DTB123YK DTC144EK 2SC2412K DTC144EK 2SC2412K	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q39 Q40 Q41 Q42 Q43			DTC144EK DTA144EK DTC144EK DTA144EK DTC144EK	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	L L	
Q44 Q45 Q46 Q47 Q48			DTA124EK DTC144EK 2SA1037K 2SB1277 DTC144EK	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
Q49 Q50 , 51 Q52 Q53 Q54			2SK669 DTC144EK 2SK669 2SA1037K DTA144EK	FET DIGITAL TRANSISTOR FET TRANSISTOR DIGITAL TRANSISTOR		

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Q55 ,56 Q57 ,58 Q59 Q60 -62 Q63			DTC144EK 2SC2412K DTC144EK DTA144EK DTC144EK	DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
TU1	2D	*	W02-1371-05	FM/AM FRONT-END	D	
TU1	2D	*	W02-1372-05	FM/AM FRONT-END	L	
SWITCH UNIT (X25-5052-70)						
292	2E		B11-0835-04	OPTICAL DIFFUSER		
293	2E		B19-0892-13	LIGHTING BOARD		
D3 ,4			B30-1272-05	LED(ORG)		
D5 -8			B30-1349-05	LED		
LCD1	2E	*	E38-0572-05	LIQUID CRYSTAL		
PL1 ,2			B30-1305-05	LAMP (5.5V .125A)		
PL3 ,4			B30-1306-05	LAMP (5.5V .125A)		
C1 -3			CK73FB1H223KTA	CHIP C 0.022UF K		
C4			CK73FB1H681K	CHIP C 680PF K		
C5			CK73FB1H223KTA	CHIP C 0.022UF K		
C6			CK73FB1H681K	CHIP C 680PF K		
C7 ,8			CK73FB1H102K	CHIP C 1000PF K		
294	2E		E29-1361-04	CONDUCTIVE RUBBER		
CN1			E59-0806-05	RECTANGULAR PLUG		
R1			RK73EB2B101J	CHIP R 100 J 1/8W		
R2			RK73EB2B471J	CHIP R 470 J 1/8W		
R3 -5			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R6			RK73FB2A104J	CHIP R 100K J 1/10W		
R7			RK73EB2B331J	CHIP R 330 J 1/8W		
R8			RK73FB2A513J	CHIP R 51K J 1/10W		
R9			RK73EB2B331J	CHIP R 330 J 1/8W		
R10			RK73FB2A513J	CHIP R 51K J 1/10W		
R11 ,12			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R13			R92-2015-05	CHIP R 33 J 1W		
R14 -16			RK73EB2B103J	CHIP R 10K J 1/8W		
R17 -20			RK73EB2B332J	CHIP R 3.3K J 1/8W		
R21 -24			RK73EB2B182J	CHIP R 1.8K J 1/8W		
R25 -28			RK73EB2B122J	CHIP R 1.2K J 1/8W		
R29			RK73EB2B471J	CHIP R 470 J 1/8W		
R30 ,31			RK73EB2B331J	CHIP R 330 J 1/8W		
R32			RK73EB2B471J	CHIP R 470 J 1/8W		
R33 -36			RK73EB2B331J	CHIP R 330 J 1/8W		
S1 -15			S40-1606-05	PUSH SWITCH		
S16 ,17			S40-1607-05	PUSH SWITCH		
S18			T99-0408-05	ROTARY ENCODER		
D1			DAN202K	DIODE		
D2			MA8056-M	ZENER DIODE		
D9 -15			MA8062-M	ZENER DIODE		
IC1 ,2			LC7582E	IC(LCD DRIVER)		
Q1			2SC2412K	TRANSISTOR		
TUNER UNIT (X86-1272-70)						
C1 ,2			CE04MW1C100M	ELECTRO 10UF 16WV		
C3 ,4			CK73FB1H681K	CHIP C 680PF K		
C5 ,6			CE04MW0J470M	ELECTRO 47UF 6.3WV		

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C7 ,8 C9 ,10 C11 C12 C13			CC73FSL1H101J CK73FB1H103K CE04MW1C100M CK73FB1H102K CK73EB1H104K	CHIP C 100PF J CHIP C 0.010UF K ELECTRØ 10UF 16WV CHIP C 1000PF K CHIP C 0.10UF K		
C14 C15 C16 ,17 C21 -25 C26			CE04NW1H010M CE04DW1A221M CK73FB1E473KTA CK73FB1H103K CE04NW1H2R2M	ELECTRØ 1.0UF 50WV ELECTRØ 220UF 10WV CHIP C 0.047UF K CHIP C 0.010UF K ELECTRØ 2.2UF 50WV		
C27 C28 C29 C30 C31			CE04NW1HR22M CK73FB1H103K CC73FRH1H270J C93-1046-05 CK73FB1H102K	ELECTRØ 0.22UF 50WV CHIP C 0.010UF K CHIP C 27PF J CERAMIC 56PF J CHIP C 1000PF K		
C32 C33 C34 C35 C36			CK73FB1H221K CK73FB1H271K CK73FB1H103K CE04NW1A330M CK73FB1H103K	CHIP C 220PF K CHIP C 270PF K CHIP C 0.010UF K ELECTRØ 33UF 10WV CHIP C 0.010UF K		
C37 ,38 C40 CN1 CF1 ,2 L1 ,2 T1			CE04NW1H010M C90-1827-05 E40-3265-05 L72-0716-05 L40-1011-17 L30-0714-05	ELECTRØ 1.0UF 50WV BACKUP 0.047F 5.5WV PIN ASSY CERAMIC FILTER SMALL FIXED INDUCTOR FM IFT		
R1 ,2 R3 ,4 R5 ,6 R7 ,8 R9 ,10			RK73FB2A473J RK73FB2A181J RK73FB2A334J RK73FB2A163J RK73FB2A223J	CHIP R 47K J 1/10W CHIP R 180 J 1/10W CHIP R 330K J 1/10W CHIP R 16K J 1/10W CHIP R 22K J 1/10W		
R11 R12 ,13 R14 R15 R16			RK73FB2A103J RK73FB2A223J RK73FB2A100J RK73FB2A103J R92-2018-05	CHIP R 10K J 1/10W CHIP R 22K J 1/10W CHIP R 10 J 1/10W CHIP R 10K J 1/10W CHIP R 560 J 1/2W		
R17 R18 R20 R21 R22			RK73FB2A621J RK73FB2A102J RK73FB2A123J RK73FB2A222J RK73FB2A561J	CHIP R 620 J 1/10W CHIP R 1.0K J 1/10W CHIP R 12K J 1/10W CHIP R 2.2K J 1/10W CHIP R 560 J 1/10W		
R23 R24 R25 R26 R27			RK73FB2A331J RK73FB2A131J RK73FB2A181J RK73FB2A331J RK73FB2A103J	CHIP R 330 J 1/10W CHIP R 130 J 1/10W CHIP R 180 J 1/10W CHIP R 330 J 1/10W CHIP R 10K J 1/10W		
R28 R29 R30 R31 -33 R34			RK73FB2A153J RK73FB2A102J RK73FB2A562J RK73FB2A473J RK73FB2A822J	CHIP R 15K J 1/10W CHIP R 1.0K J 1/10W CHIP R 5.6K J 1/10W CHIP R 47K J 1/10W CHIP R 8.2K J 1/10W		
R35 ,36 R37 R38 R51			RK73FB2A223J RK73FB2A123J RK73FB2A103J RK73FB2A471J	CHIP R 22K J 1/10W CHIP R 12K J 1/10W CHIP R 10K J 1/10W CHIP R 470 J 1/10W		

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R52 R53 R54 ,55 VR1 ,2 VR3  VR4			RK73FB2A103J RK73FB2A223J RK73FB2A472J R12-3100-05 R12-3101-05  * R12-5048-05	CHIP R 10K J 1/10W CHIP R 22K J 1/10W CHIP R 4.7K J 1/10W TRIMMING POT.(10K) TRIMMING POT.(22K)  TRIMMING POT.(100K)		
D1 D1 D2 D3 D3			MA110 1SS355 ERA15-01 MA110 1SS355	DIODE DIODE DIODE DIODE DIODE		
IC1 IC2 IC3 Q1 Q2 ,3  Q4 Q5 Q6 Q7 Q8  Q9 Q10 Q11			BA3430F LA1140 * PST529E-MT 2SC2413K DTC124EK  2SA1037K 2SC2412K DTC144EK DTC114EK 2SA1428  2SC2412K DTC144EK 2SA1428	IC(PRE AMP) IC(FM IF/DETECTION) IC(RESET) TRANSISTOR DIGITAL TRANSISTOR  TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR  TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
CASSETTE MECHANISM ASSY (D40-1035-05)						
1 2 3 4 5  6 7 8 9 10  11 12 13 14 15  16 17 20 21 22  23 25 30 31 32  33 35 36 37	2A 2B 3A 3A 2B  2B 2A 3A 2B 2A  3A 3A, 3B 2B 3B 3B  3B 3A, 3B 3A 2A 2A  2A 3B 3A 3A 3A  3A 3A 3A 3A		A10-2089-08 J21-7207-08 D14-0616-08 N24-3012-41 D14-0617-08  D14-0618-08 D14-0619-08 D10-2666-08 D10-2667-08 G01-2560-08  D13-1079-08 D13-1081-08 D15-0908-08 D10-2668-08 D10-2679-08  G01-2557-08 D01-0603-08 D10-2669-08 D10-2670-08 G01-2218-08  N84-2004-45 D13-1078-08 A11-0848-18 A11-0847-18 D13-1077-08  G01-2563-08 G01-2579-18 G02-0473-08 D10-2645-18	CHASSIS CALKED ASSY MOUNTING HARDWARE ROLLER A E TYPE RETAINING RING ROLLER B  PINCH ROLLER F PINCH ROLLER R LEVER (FR CAM) LEVER (PROGRAM) TENSION SPRING  GEAR (IDLE) GEAR (TAKE UP) PULLEY LEVER LEVER  TENSION SPRING FLYWHEEL LEVER LEVER (LOCK) TENSION SPRING  SCREW (M2X4) GEAR SUB CHASSIS ASSY SUB CHASSIS ASSY GEAR (SWITCHING)  TORSION SPRING TENSION SPRING FLAT SPRING LEVER		

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38	3A		D10-2671-18	LEVER		
39	3A		G10-1012-08	FELT		
40	3A		D03-0305-08	REEL DISK		
41	2B		N14-0701-08	NUT		
43	2B		N30-2004-46	SCREW (M2X4)		
44	2B		G01-2573-08	TORSION SPRING		
45	2B		G01-2571-08	TENSION SPRING		
51	2A	*	D10-2783-08	LEVER (EJECT)		
52	2A		G01-2216-08	TENSION SPRING		
53	2A		D10-2673-08	ACTION ARM		
54	2A		G01-2217-08	TENSION SPRING		
60	1B		J19-4387-08	HOLDER		
61	1B		J19-4380-08	HOLDER		
63	1B		G01-2212-08	TENSION SPRING		
64	1B		D10-2130-08	LEVER (INV)		
65	1A		J90-0610-08	CASSETTE GUIDE		
66	1A		G01-2225-08	TORSION SPRING		
67	1A		G09-0093-08	SPRING		
68	1A		J19-2990-08	HOLDER		
69	1B		N39-2004-08	SCREW (M2X4)		
70	1A		G11-1065-08	CUSHION		
71	1B		J21-7252-08	MOUNTING HARDWARE		
72	1B		D10-2674-08	LEVER (RELEASE)		
73	1B		G01-2574-08	TORSION SPRING		
74	1B		G01-2556-08	TENSION SPRING		
77	1B		N39-1706-45	SCREW (M1.7X6)		
78	1B	*	D10-2782-08	LEVER (REW)		
79	1B	*	D10-2781-08	LEVER (FF)		
81	1B		G01-2572-08	TENSION SPRING		
83	1B		N09-4039-08	SCREW		
85	2B		J74-0081-08	PRINTED WIRING BOARD		
86	2B		J84-0009-08	PRINTED WIRING BOARD (FPC)		
92	2A		N39-2002-46	SCREW (M2X2)		
101	2A		J21-7205-08	MOUNTING HARDWARE		
102	2A		D10-2664-08	LEVER		
103	2A		G01-2567-08	TENSION SPRING		
109	2A		N30-2003-08	SCREW (M2X3)		
112	3B		D16-0605-08	BELT		
113	3B		C91-0692-05	CERAMIC	0.047UF M	
115	3B		J61-0081-05	WIRE BAND		
121	1A		D10-2658-08	ARM		
122	1A		D10-2678-08	LEVER		
123	1A		J12-0647-08	PIN		
124	1A		G01-2562-08	TORSION SPRING		
125	2B		J90-0722-08	CASSETTE GUIDE		
126	2B		N09-4009-08	SCREW (M2X5)		
127	1B		N35-2006-46	SCREW (M2.6X6)		
131	2B		T94-0405-08	SOLENOID		
132	2B		J21-7251-08	MOUNTING HARDWARE		
134	3B		E31-8188-05	CONNECTING WIRE		
136	1B		D10-2685-08	LEVER		
137	1B		D10-2686-08	LEVER		
138	1B		D10-2687-08	LEVER		
139	1B		G01-2577-08	TENSION SP		
140	1B		G01-2578-08	TENSION SP		

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141	3B		N39-2002-46	PAN HEAD MACHINE SCREW		
142	3B		N39-2003-46	PAN HEAD MACHINE SCREW		
152	2B, 3B		N90-2003-46	SCREW (M2X3)		
153	3A		N30-2603-46	SCREW (M2.6X3)		
161	3A, 3B		N19-1144-08	FLAT WASHER		
162	2B, 3A		N19-1134-08	FLAT WASHER		
163	2A, 2B		N19-1135-08	FLAT WASHER		
164	3A, 3B		N19-1137-08	FLAT WASHER		
181	2A		E40-9127-05	PIN CONNECTOR		
HD1	2B		T31-0205-08	PLAYBACK HEAD		
M1	2A		T42-0716-08	DC MOTOR ASSY		
S1	2A		S31-3633-08	SLIDE SWITCH		
S2	3B		S31-3634-08	SLIDE SWITCH		
S3	1B		S46-1606-08	LEAF SWITCH		
S4	1B		S46-1607-08	LEAF SWITCH		

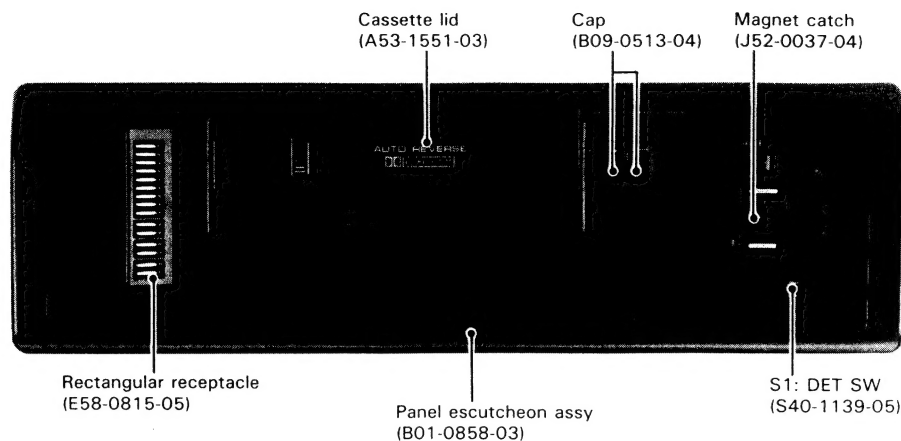
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# KRC-654R D/L



## SPECIFICATIONS

Specifications subject to change without notice.

### FM Tuner Section

Frequency Range	87.5 MHz - 108.0 MHz
Usable Sensitivity (DIN)	1.1 $\mu$ V/75 ohms
Stereo Sensitivity (S/N = 46dB)	1.6 $\mu$ V/75 ohms
Frequency Response ( $\pm$ 4.5dB)	30 Hz - 15 kHz
Signal to Noise Ratio (IEC - A)	68 dB
Selectivity (DIN)	70 dB
Stereo Separation (1kHz)	35 dB
19kHz Carrier Leakage	65 dB

### MW Tuner Section

Frequency Range	531 kHz - 1611 kHz
Usable Sensitivity	30 $\mu$ V

### LW Tuner Section(KRC-854RL/654RL)

Frequency Range	153 kHz - 281 kHz
Usable Sensitivity	60 $\mu$ V

### Cassette Deck Section

Tape Speed	4.76 cm/sec.
Wow & Flutter (WRMS)	0.12 % (WRMS)
Fast Winding Time (C - 60)	100 sec.
Frequency Respons (120 $\mu$ s)	30 Hz - 14 kHz (+4 dB, -6 dB)
(70 $\mu$ s)	30 Hz - 16 kHz (+4 dB, -6 dB)
Stereo Separation (1kHz)	40 dB
Signal to Noise Ratio (Dolby NR OFF)	54 dB
(Dolby B NR ON)	63 dB

### Audio Section

Maximum Output Power	25 W $\times$ 4
Output Power (10 % THD, 1 kHz, 4 ohms)	20 W $\times$ 4
(1 % THD, 1 kHz, 4 ohms)	15 W $\times$ 4
Tone Action	Bass : 100Hz $\pm$ 10dB
	Treble : 10kHz $\pm$ 10dB
Preout level/Impedance	800 mV (max.) / 180 ohms

### General

Operating Voltage	14.4 V (11 - 16 V allowable)
Current Consumption	7.5 A at Rated Power
Dimensions (W $\times$ H $\times$ D)	188 $\times$ 58 $\times$ 177 mm
Installation size (W $\times$ H $\times$ D)	182 $\times$ 52 $\times$ 155 mm
Weight	1.4 kg

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